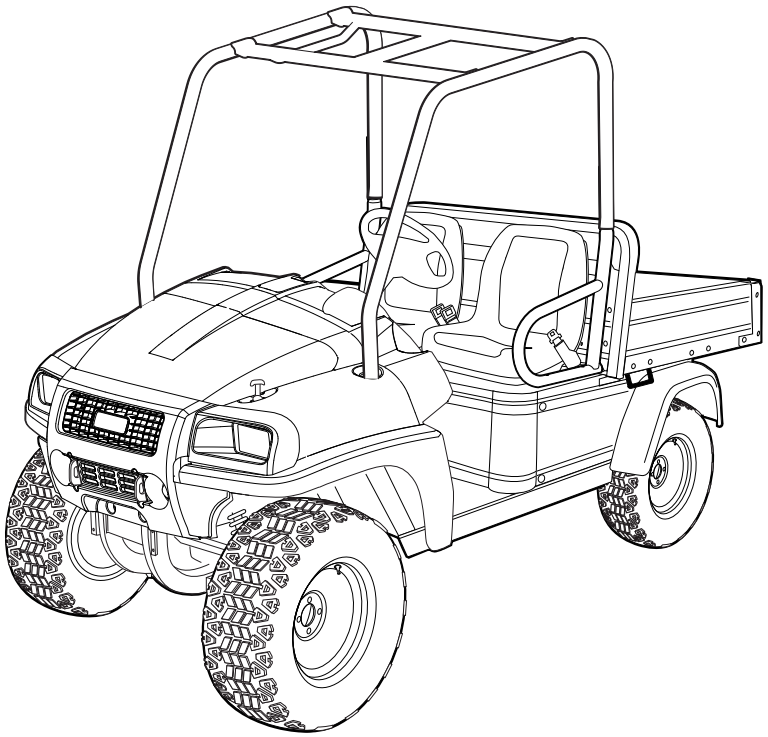
Club Car®

CARRYALL 1500/1700 and XRT 1550/1550 SE All-Wheel Drive Owner's Manual

Gasoline and Diesel Vehicles

[Refer to back cover for applicable build code range]



Ingersoll Rand
Industrial Technologies

NOTICE

This manual is valid for vehicles manufactured in the build code range provided on the back cover of this manual. If the vehicle build code is different from that shown on the back cover of this manual, please contact your nearest dealer or go to www.clubcar.com to retrieve the proper owner's manual for the vehicle. See also Model Identification in this manual.

Warranty information appears at the end of this manual. No other warranties, express or implied, are contained herein. Your authorized representative checked the vehicle before it was delivered to you and will provide you a copy of the completed vehicle warranty registration form.

Club Car is not liable for errors in this manual or for incidental or consequential damages that result from the use of the material in this manual.

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The information contained in this document is subject to change without notice.

Club Car reserves the right to make design changes to vehicles without obligation to make these changes on units previously sold.

These vehicles do not conform to U.S. Federal Motor Vehicle Safety Standards (FMVSS) for automobiles or to FMVSS 571.500 for low-speed vehicles, and are not equipped for operation on public streets, roads, or highways.

If in English, this manual is the Original Instructions provided by the manufacturer. If in any language other than English, this manual is a translation of the Original Instructions.

Dimensions and weights are approximate only and the illustrations do not necessarily show the vehicle in standard condition. For exact information about any particular vehicle, please consult your dealer.

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FOREWORD

Thank you for choosing Club Car, the name most widely recognized as the industry leader in vehicle efficiency and long-lasting value. You have chosen the finest utility vehicle on the market. Please protect your investment and ensure that your Club Car vehicle(s) provides years of reliable, superior performance by reading and following the maintenance instructions in this manual.

Your comfort and safety are important to us, so we urge you to read and follow the step-by-step operating instructions and safety procedures in this manual. These instructions must be followed in order to avoid the risk of severe personal injury. If you rent or loan your vehicle to others, we recommend that you ask them to read this manual before they operate the vehicle.

Club Car products are backed by a customer support system designed to offer you fast, courteous service. In the event your Club Car vehicle needs repairs or service, please contact your local authorized Club Car dealer or distributor; who will be able to provide technical advice, perform warranty work, and sell parts and service manuals.

For the name and address of the authorized Club Car dealer or distributor nearest you, logon to our web site at www.clubcar.com or call 706-863-3000. If you would prefer to write to us, direct your letter to: Club Car LLC, Attention: Marketing Services, P.O. Box 204658, Augusta, Georgia 30917-4658 USA.

We hope you will consider this owner's manual a permanent part of your Club Car vehicle. If you sell the vehicle, please include the manual so that the next owner will have the important operating, safety, and maintenance information it contains.

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NOTE TO THE OWNER

This utility vehicle, with standard equipment and authorized attachments, is intended for commercial or residential property, farm, ranch or recreational applications. Use only approved accessories and attachments designed for your vehicle. This Operator's Manual does not include instructions for attachments. Read the manual(s) provided with the authorized attachment to learn safe maintenance and operation of the vehicle. Make sure the vehicle is suitably equipped for the type of work to be performed. Contact your dealer if you have any questions concerning the use of accessories and attachments for these vehicles.

DO NOT use this vehicle for any purpose or in any manner other than as described in the manual, decals or other product safety information provided with the vehicle. These materials define the vehicle's intended use. Consult an authorized dealer on changes, additions or modifications that may be required for this vehicle to comply with various country regulations and safety requirements.

CAUTION

- **The fuel system and engine on your vehicle are designed and built to government emissions standards. Tampering by dealers, customers, operators and users is strictly prohibited by law. Failure to comply could result in government fines, rework charges, invalid warranty, legal action and possible confiscation of the vehicle until rework to original condition is completed. Engine service and/or repairs must be done by a certified technician only!**

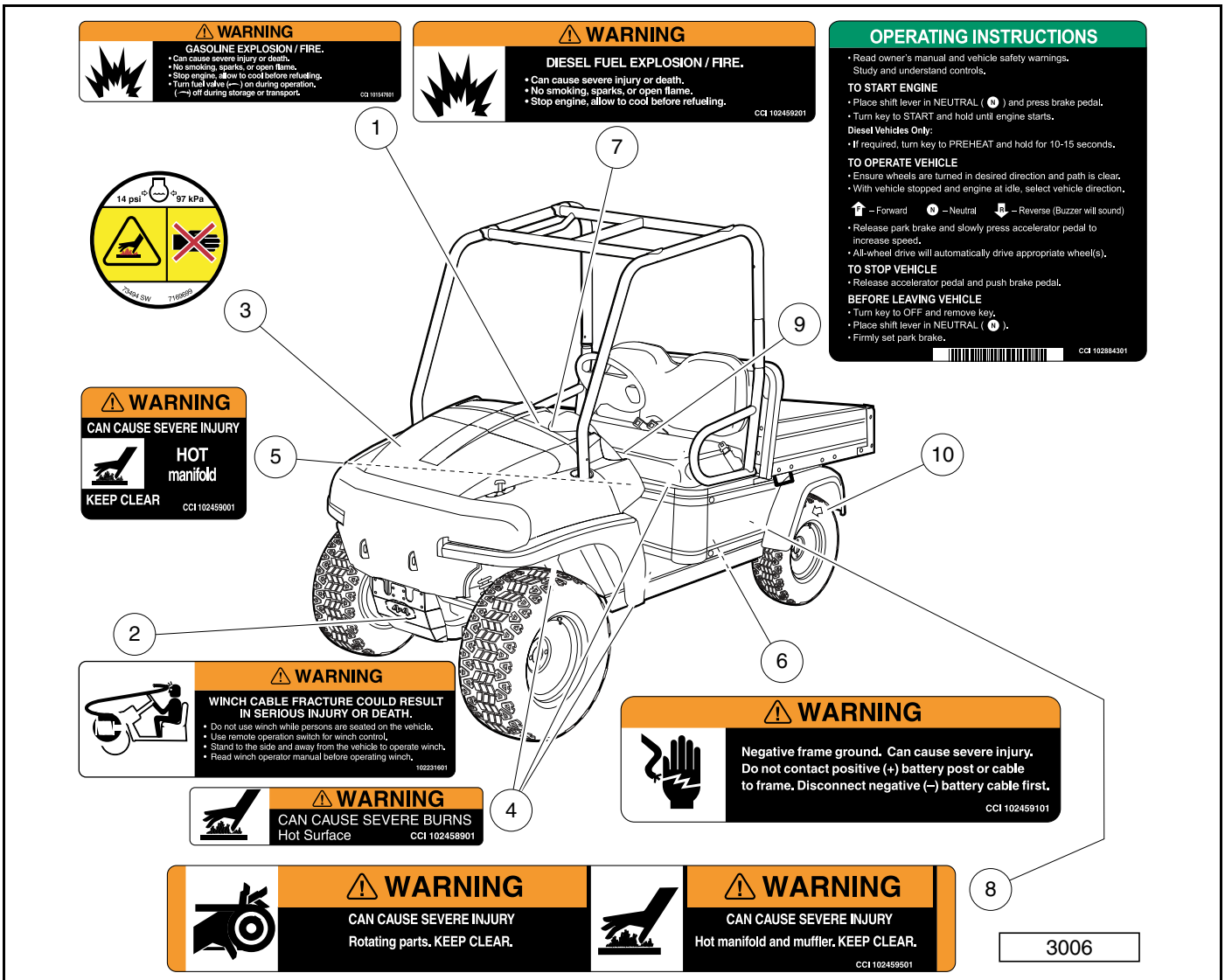
SAFETY DECAL IDENTIFICATION

The following pages contain safety decal identification information. For detailed information on specific features, read the appropriate section in this manual.

DECAL INSPECTION AND MAINTENANCE

Clean decals and keep legible. Do not use solvents, gasoline, or other harsh chemicals to clean decals. If any of the operation or warning decals on the vehicle become damaged, have been removed, or cannot be easily read, they should be replaced immediately to avoid possible property damage, personal injury, or death. Contact your dealer. If a decal is on a part that is replaced, ensure new part has appropriate decal.

CARRYALL 1500 AND XRT 1550 GAS/DIESEL VEHICLES


WARNING
GASOLINE EXPLOSION / FIRE.
• Can cause severe injury or death.
• No smoking, sparks, or open flame.
• Stop engine, allow to cool before refueling.
• Turn fuel valve (—) on during operation.
(—) off during storage or transport.
CCI 101547601
WARNING
DIESEL FUEL EXPLOSION / FIRE.
• Can cause severe injury or death.
• No smoking, sparks, or open flame.
• Stop engine, allow to cool before refueling.
CCI 102459201
OPERATING INSTRUCTIONS
• Read owner's manual and vehicle safety warnings.
Study and understand controls.
TO START ENGINE
• Place shift lever in NEUTRAL (N) and press brake pedal.
• Turn key to START and hold until engine starts.
Diesel Vehicles Only:
• If required, turn key to PREHEAT and hold for 10-15 seconds.
TO OPERATE VEHICLE
• Ensure wheels are turned in desired direction and path is clear.
• With vehicle stopped and engine at idle, select vehicle direction.
– Forward N – Neutral R – Reverse (Buzzer will sound)
• Release park brake and slowly press accelerator pedal to increase speed.
• All-wheel drive will automatically drive appropriate wheel(s).
TO STOP VEHICLE
• Release accelerator pedal and push brake pedal.
BEFORE LEAVING VEHICLE
• Turn key to OFF and remove key.
• Place shift lever in NEUTRAL (N).
• Firmly set park brake.
CCI 102884301
14 psi
97 kPa
WARNING
CAN CAUSE SEVERE INJURY
HOT
manifold
KEEP CLEAR
CCI 102459001
WARNING
WINCH CABLE FRACTURE COULD RESULT IN SERIOUS INJURY OR DEATH.
• Do not use winch while persons are seated on the vehicle.
• Use remote operation switch for winch control.
• Stand to the side and away from the vehicle to operate winch.
• Read winch operator manual before operating winch.
102231601
WARNING
CAN CAUSE SEVERE BURNS
Hot Surface
CCI 102458901
WARNING
Negative frame ground. Can cause severe injury.
Do not contact positive (+) battery post or cable to frame. Disconnect negative (–) battery cable first.
CCI 102459101
WARNING
CAN CAUSE SEVERE INJURY
Rotating parts. KEEP CLEAR.
WARNING
CAN CAUSE SEVERE INJURY
Hot manifold and muffler. KEEP CLEAR.
CCI 102459501
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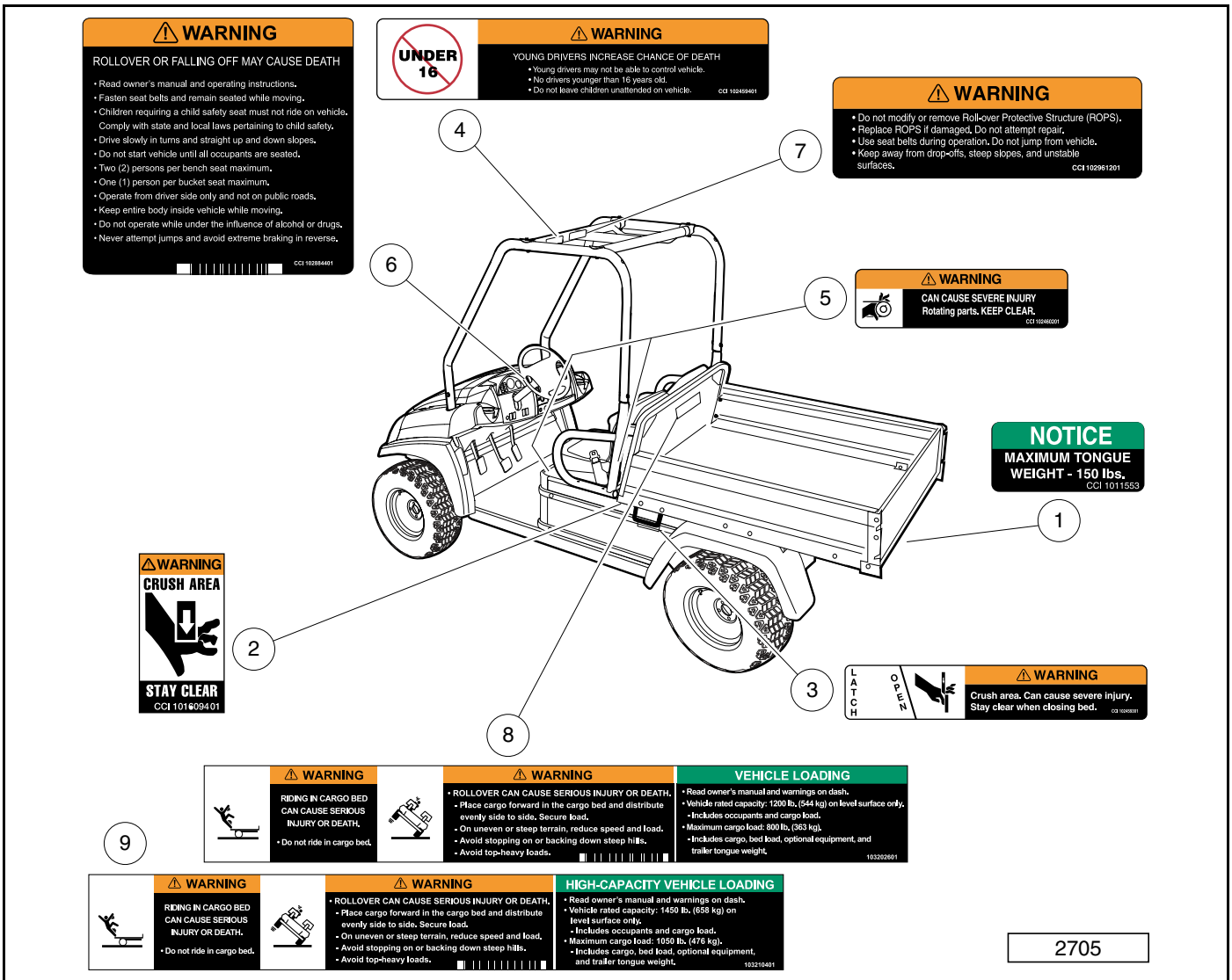
1	101547601	Decal, Gasoline Fuel Warning (at fuel fill or on frame, near fuel tank)	6	102459101	Decal, Ground Warning (on vehicle frame, near battery)
2	102231601	Decal, Winch Safety Warning (on vehicle body, below seat)	7	102459201	Decal, Diesel Fuel Warning (on frame, near fuel tank)
3	102427501	Decal, Hot Pressurized Fluid Warning (on coolant reserve tank cap, under hood)	8	102459501	Decal, Rotating/Hot Parts Warning (on frame near battery)
4	102458901	Decal, Hot Surface Warning (on coolant pipes and underside of seats) (on bed seal)	9	102884301	Decal, Operating Instructions (on instrument panel)
5	102459001	Decal, Hot Manifold Warning (on engine, near manifold)	10		Directional Arrow

CARRYALL 1500 AND XRT 1550 GAS/DIESEL VEHICLES


WARNING
ROLLOVER OR FALLING OFF MAY CAUSE DEATH
• Read owner's manual and operating instructions.
• Fasten seat belts and remain seated while moving.
• Children requiring a child safety seat must not ride on vehicle. Comply with state and local laws pertaining to child safety.
• Drive slowly in turns and straight up and down slopes.
• Do not start vehicle until all occupants are seated.
• Two (2) persons per bench seat maximum.
• One (1) person per bucket seat maximum.
• Operate from driver side only and not on public roads.
• Keep entire body inside vehicle while moving.
• Do not operate while under the influence of alcohol or drugs.
• Never attempt jumps and avoid extreme braking in reverse.
CCI 102884401
UNDER 16
WARNING
YOUNG DRIVERS INCREASE CHANCE OF DEATH
• Young drivers may not be able to control vehicle.
• No drivers younger than 16 years old.
• Do not leave children unattended on vehicle.
CCI 102459401
WARNING
• Do not modify or remove Roll-over Protective Structure (ROPS).
• Replace ROPS if damaged. Do not attempt repair.
• Use seat belts during operation. Do not jump from vehicle.
• Keep away from drop-offs, steep slopes, and unstable surfaces.
CCI 102961201
WARNING
CAN CAUSE SEVERE INJURY
Rotating parts. KEEP CLEAR.
CCI 102460201
NOTICE
MAXIMUM TONGUE WEIGHT - 150 lbs.
CCI 1011553
WARNING
CRUSH AREA
STAY CLEAR
CCI 101609401
LATCH
OPEN
WARNING
Crush area. Can cause severe injury. Stay clear when closing bed.
CCI 102459301
WARNING
RIDING IN CARGO BED CAN CAUSE SERIOUS INJURY OR DEATH.
• Do not ride in cargo bed.
WARNING
• ROLLOVER CAN CAUSE SERIOUS INJURY OR DEATH.
- Place cargo forward in the cargo bed and distribute evenly side to side. Secure load.
- On uneven or steep terrain, reduce speed and load.
- Avoid stopping on or backing down steep hills.
- Avoid top-heavy loads.
VEHICLE LOADING
• Read owner's manual and warnings on dash.
• Vehicle rated capacity: 1200 lb. (544 kg) on level surface only.
- Includes occupants and cargo load.
• Maximum cargo load: 800 lb. (363 kg).
- Includes cargo, bed load, optional equipment, and trailer tongue weight.
103202601
WARNING
RIDING IN CARGO BED CAN CAUSE SERIOUS INJURY OR DEATH.
• Do not ride in cargo bed.
WARNING
• ROLLOVER CAN CAUSE SERIOUS INJURY OR DEATH.
- Place cargo forward in the cargo bed and distribute evenly side to side. Secure load.
- On uneven or steep terrain, reduce speed and load.
- Avoid stopping on or backing down steep hills.
- Avoid top-heavy loads.
HIGH-CAPACITY VEHICLE LOADING
• Read owner's manual and warnings on dash.
• Vehicle rated capacity: 1450 lb. (658 kg) on level surface only.
- Includes occupants and cargo load.
• Maximum cargo load: 1050 lb. (476 kg).
- Includes cargo, bed load, optional equipment, and trailer tongue weight.
103210401
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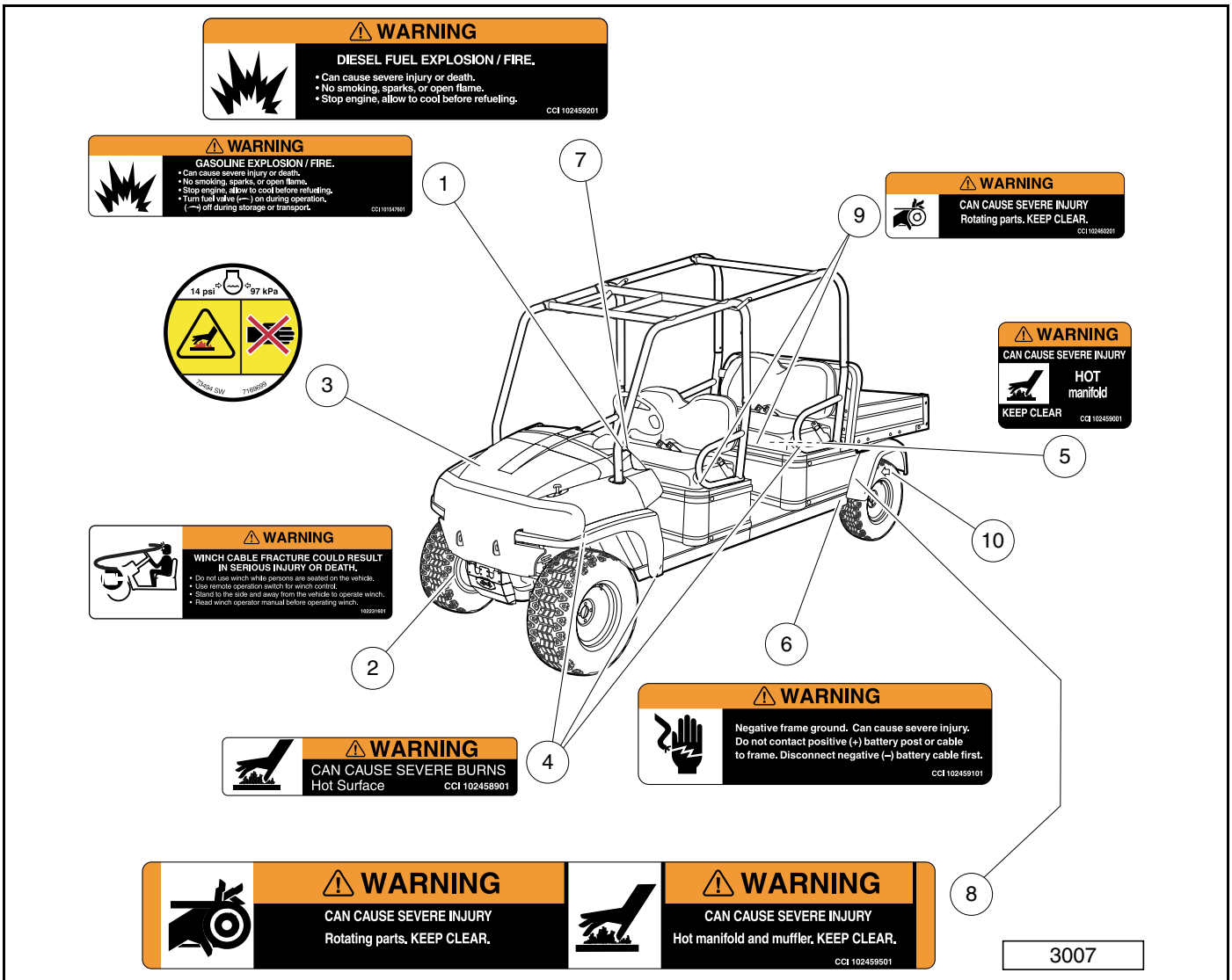
2705

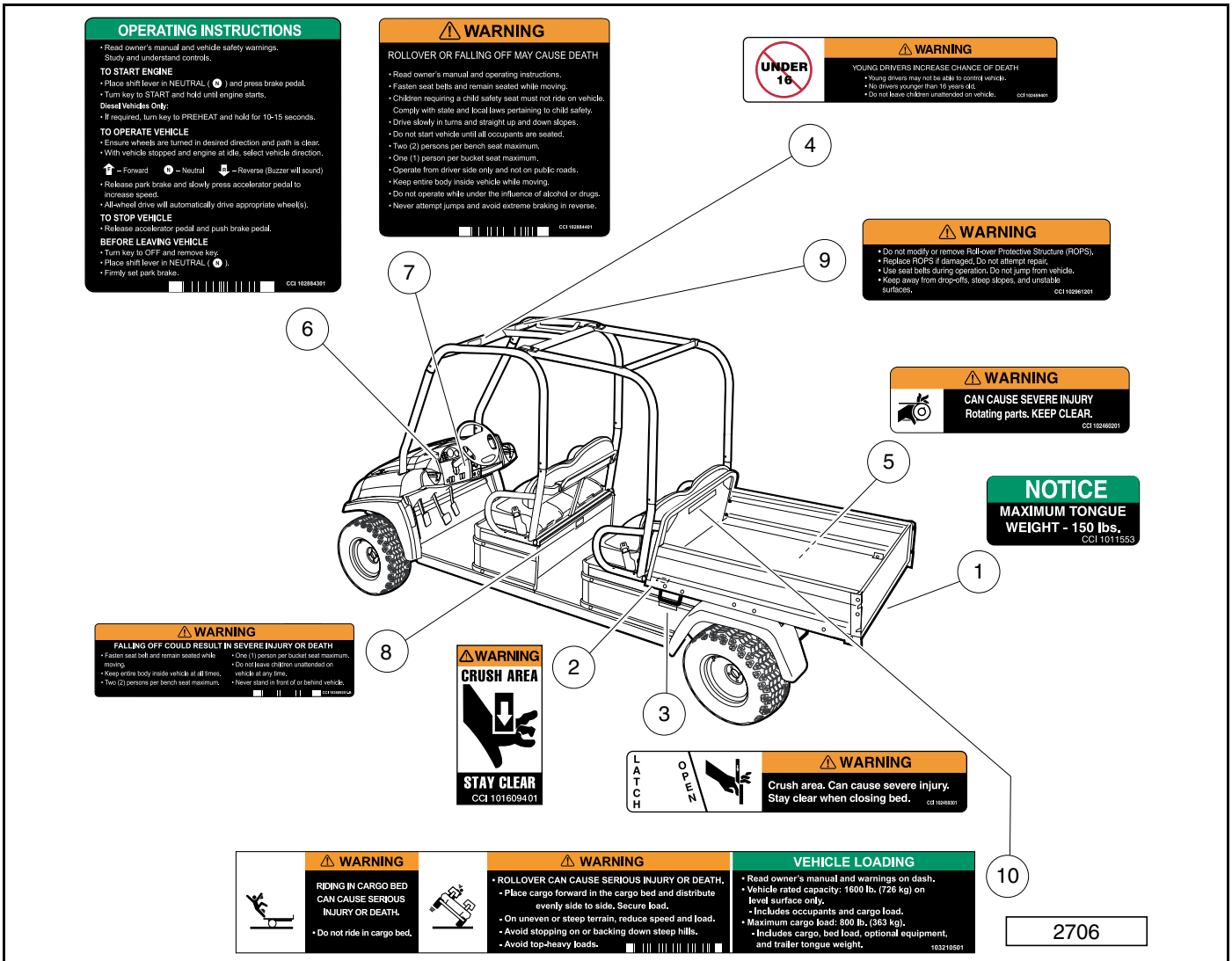
1	1011553	Decal, Trailer Hitch Tongue Weight Notice (on trailer/receiver hitch)	6	102884401	Decal, Rollover Warning (on instrument panel)
2	101609401	Decal, Crush Area Warning (behind seat, near cargo bed)	7	102961201	Decal, ROPS Warning (on ROPS)
3	102459301	Decal, Bed Latch Warning (on vehicle body, below bed latch)	8	103202601	Decal, Vehicle Loading Instructions (on cargo bed)
4	102459401	Decal, Young Driver Warning (on ROPS)	9	103210401	Decal, Vehicle Loading Instructions (on cargo bed) (for vehicles with the high capacity option)
5	102460201	Decal, Rotating Parts Warning (Diesel: on vehicle body, under seat) (Gas: on frame)			

CARRYALL 1700 AND XRT 1550 SE GAS/DIESEL VEHICLES



1	101547601	Decal, Gasoline Fuel Warning (at fuel fill or on frame, near fuel tank)	6	102459101	Decal, Ground Warning (on vehicle frame, near battery)
2	102231601	Decal, Winch Safety Warning (on vehicle body, below seat)	7	102459201	Decal, Diesel Fuel Warning (on frame, near fuel tank)
3	102427501	Decal, Hot Pressurized Fluid Warning (on coolant reserve tank cap, under hood)	8	102459501	Decal, Rotating/Hot Parts Warning (on frame near battery)
4	102458901	Decal, Hot Surface Warning (on coolant pipes and underside of seats) (on bed seal)	9	102460201	Decal, Rotating Parts Warning (Diesel: on vehicle body, under seat) (Gas: on frame)
5	102459001	Decal, Hot Manifold Warning (on engine, near manifold)	10		Directional Arrow

CARRYALL 1700 AND XRT 1550 SE GAS/DIESEL VEHICLES


OPERATING INSTRUCTIONS
• Read owner's manual and vehicle safety warnings. Study and understand controls.
TO START ENGINE
• Place shift lever in NEUTRAL (N) and press brake pedal.
• Turn key to START and hold until engine starts.
Diesel Vehicles Only:
• If required, turn key to PREHEAT and hold for 10-15 seconds.
TO OPERATE VEHICLE
• Ensure wheels are turned in desired direction and path is clear.
• With vehicle stopped and engine at idle, select vehicle direction.
F – Forward N – Neutral R – Reverse (Buzzer will sound)
• Release park brake and slowly press accelerator pedal to increase speed.
• All-wheel drive will automatically drive appropriate wheel(s).
TO STOP VEHICLE
• Release accelerator pedal and push brake pedal.
BEFORE LEAVING VEHICLE
• Turn key to OFF and remove key.
• Place shift lever in NEUTRAL (N).
• Firmly set park brake.
CCI 102884301
⚠ WARNING
ROLLOVER OR FALLING OFF MAY CAUSE DEATH
• Read owner's manual and operating instructions.
• Fasten seat belts and remain seated while moving.
• Children requiring a child safety seat must not ride on vehicle. Comply with state and local laws pertaining to child safety.
• Drive slowly in turns and straight up and down slopes.
• Do not start vehicle until all occupants are seated.
• Two (2) persons per bench seat maximum.
• One (1) person per bucket seat maximum.
• Operate from driver side only and not on public roads.
• Keep entire body inside vehicle while moving.
• Do not operate while under the influence of alcohol or drugs.
• Never attempt jumps and avoid extreme braking in reverse.
CCI 102884401
UNDER 16
⚠ WARNING
YOUNG DRIVERS INCREASE CHANCE OF DEATH
• Young drivers may not be able to control vehicle.
• No drivers younger than 16 years old.
• Do not leave children unattended on vehicle.
CCI 102459401
⚠ WARNING
• Do not modify or remove Roll-over Protective Structure (ROPS).
• Replace ROPS if damaged. Do not attempt repair.
• Use seat belts during operation. Do not jump from vehicle.
• Keep away from drop-offs, steep slopes, and unstable surfaces.
CCI 102961201
⚠ WARNING
CAN CAUSE SEVERE INJURY
Rotating parts. KEEP CLEAR.
CCI 102460201
NOTICE
MAXIMUM TONGUE WEIGHT - 150 lbs.
CCI 1011553
⚠ WARNING
FALLING OFF COULD RESULT IN SEVERE INJURY OR DEATH
• Fasten seat belt and remain seated while moving.
• Keep entire body inside vehicle at all times.
• Two (2) persons per bench seat maximum.
• One (1) person per bucket seat maximum.
• Do not leave children unattended on vehicle at any time.
• Never stand in front of or behind vehicle.
⚠ WARNING
CRUSH AREA
STAY CLEAR
CCI 101609401
LATCH OPEN
⚠ WARNING
Crush area. Can cause severe injury. Stay clear when closing bed.
CCI 102459301
⚠ WARNING
RIDING IN CARGO BED CAN CAUSE SERIOUS INJURY OR DEATH.
• Do not ride in cargo bed.
⚠ WARNING
• ROLLOVER CAN CAUSE SERIOUS INJURY OR DEATH.
- Place cargo forward in the cargo bed and distribute evenly side to side. Secure load.
- On uneven or steep terrain, reduce speed and load.
- Avoid stopping on or backing down steep hills.
- Avoid top-heavy loads.
VEHICLE LOADING
• Read owner's manual and warnings on dash.
• Vehicle rated capacity: 1600 lb. (726 kg) on level surface only.
- Includes occupants and cargo load.
• Maximum cargo load: 800 lb. (363 kg).
- Includes cargo, bed load, optional equipment, and trailer tongue weight.
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2706

1	1011553	Decal, Trailer Hitch Tongue Weight Notice (on trailer/receiver hitch)	6	102884301	Decal, Operating Instructions (on instrument panel)
2	101609401	Decal, Crush Area Warning (behind seat, near cargo bed)	7	102884401	Decal, Rollover Warning (on instrument panel)
3	102459301	Decal, Bed Latch Warning (on vehicle body, below bed latch)	8	102889201	Decal, Falling Off Warning (behind and below front seats)
4	102459401	Decal, Young Driver Warning (on ROPS)	9	102961201	Decal, ROPS Warning (on ROPS)
5	102460201	Decal, Rotating Parts Warning (Diesel: on vehicle body, under seat) (Gas: on frame)	10	103210501	Decal, Vehicle Loading Instructions (on cargo bed)

PRACTICE SAFETY

399
Figure 1 Practice Safety

Safety signs like you see above may at first seem shocking, but their impact is mild compared with the reality of severe personal injury.

Your safety and satisfaction are of the utmost importance to us. That is why before operating the vehicle, we urge you to review the information in this manual. Understand and become familiar with the DANGER, WARNING, and CAUTION statements and procedures it contains, along with the safety decals that are affixed to your vehicle.

Prior to operating the vehicle, all operators should go to the Club Car web site and view the vehicle safety video. To locate the video, go to www.clubcar.com, and search for “safety video.”

Take time to understand the language of safety. It is a language that can save your life.

PROPOSITION 65 WARNING – STATE OF CALIFORNIA

⚠ WARNING

- **This product contains or emits chemicals or substances that have been determined by the state of California to cause cancer and birth defects or other reproductive harm.**

CALIFORNIA

PROPOSITION 65 WARNING

Diesel and gasoline engine exhaust, and some of its constituents, are known to the State of California to cause cancer, birth defects, and other reproductive harm.

Battery post, terminals and related accessories contain lead and lead compounds.

Wash hands after handling.

SAFETY DETAILS

⚠ WARNING

- **This owner's manual should be read completely before attempting to drive or service the vehicle. Failure to follow the instructions in this manual could result in property damage, severe personal injury, or death.**

PERSONAL SAFETY

It is important to note that some vital statements throughout this manual and on the decals affixed to the vehicle are preceded by the words DANGER, WARNING, or CAUTION. For your protection, we recommend that you take special notice of these safety precautions. Safety precautions are essential and must be followed.

If any of the operation or warning decals on the vehicle become damaged, have been removed, or cannot be easily read, they should be replaced immediately to avoid possible property damage, personal injury, or death. Contact your dealer.

⚠ DANGER

- **A DANGER indicates an immediate hazard that will result in severe personal injury or death. The color associated with Danger is RED.**

⚠ WARNING

- **A WARNING indicates an immediate hazard that could result in severe personal injury or death. The color associated with Warning is ORANGE.**

⚠ CAUTION

- **A CAUTION with the safety alert symbol indicates a hazard or unsafe practice that could result in minor personal injury. The color associated with Caution is YELLOW.**

MACHINE SAFETY

CAUTION

- **A CAUTION without the safety alert symbol indicates a potentially hazardous situation that could result in property damage.**

A CAUTION, without the safety alert symbol, is intended for machine and property safety. It is used throughout this manual followed by specific instructions to prevent machine or property damage. Failure to follow these CAUTION messages could result in machine or property damage.

INFORMATION

NOTE: *Instructions that clarify steps, procedures, or other information in this manual.*

GENERAL WARNINGS

The following safety statements must be heeded whenever the vehicle is being operated, repaired, or serviced. **See Safety Decal Identification on page 5.** Other specific safety statements appear throughout this manual and on the vehicle.

⚠ DANGER

- **Battery – Explosive gases! Do not smoke. Keep sparks and flames away from the vehicle and service area. Ventilate when charging or operating vehicle in an enclosed area. Wear a full face shield and rubber gloves when working on or near batteries.**
- **Gasoline/Diesel – Flammable! Explosive! Do not smoke. Keep sparks and flames away from the vehicle and service area. Service only in a well-ventilated area.**
- **Do not operate engine in an enclosed area without proper ventilation. The engine produces carbon monoxide, which is an odorless, deadly poison that can quickly accumulate in an enclosed cab. Do not run the engine in a parked vehicle without proper cab ventilation. Move to fresh air if you feel nausea, headache, dizziness, drowsiness or weakness.**
- **The vehicle will not provide protection from lightning, flying objects, or other storm-related hazards. If caught in a storm while driving this vehicle, exit the vehicle and seek shelter in accordance with applicable safety guidelines for your location.**
- **Do not weld to a wheel or rim until the tire is completely removed. Inflated tires can generate a gas mixture with the air that can be ignited by high temperatures from welding procedures performed on the wheel or rim. Removing the air or loosening the tire on the rim (breaking the bead) will NOT eliminate the hazard. This condition can exist whether tires are inflated or deflated. The tire MUST be completely removed from the wheel or rim prior to welding the wheel or rim. Failure to comply will result in death or serious injury.**

⚠ WARNING

- **Follow the procedures exactly as stated in this manual, and heed all DANGER, WARNING, and CAUTION statements in this manual as well as those on the vehicle.**
- **This vehicle is not intended to be used where risk of falling objects exist. If your vehicle will be used in such an environment, contact your local dealer.**
- **Do not leave children unattended on vehicle.**
- **Children requiring a child safety seat must not ride on the vehicle. Comply with state and local laws pertaining to child safety.**
- **The driver and passenger must be restrained at all times with the seat belts provided to help prevent injury in the event of sudden braking, collision, or roll-over.**
- **No more than one person per bucket seat at one time. No more than two persons per bench seat at one time. Do not allow people to ride in any part of the vehicle that is not equipped with a seat and a seat belt. Do not allow a passenger to hold a child in his or her lap while the vehicle is moving.**
- **Prior to leaving the vehicle unattended or servicing the vehicle, place attachment on the ground, set the park brake, place the Forward/Reverse handle in the NEUTRAL position, turn the key switch to the OFF position, and remove the key. Chock the wheels when servicing the vehicle.**
- **Improper use of the vehicle or failure to properly maintain it could result in decreased vehicle performance, severe personal injury, or death.**
- **Any modification or change to the vehicle that affects the electrical system, stability or handling of the vehicle, or increases maximum vehicle speed beyond factory specifications, could result in severe personal injury or death.**
- **Check the vehicle for proper location of all vehicle safety and operation decals and make sure they are in place and are easy to read.**

WARNING CONTINUED ON NEXT PAGE

⚠ WARNING

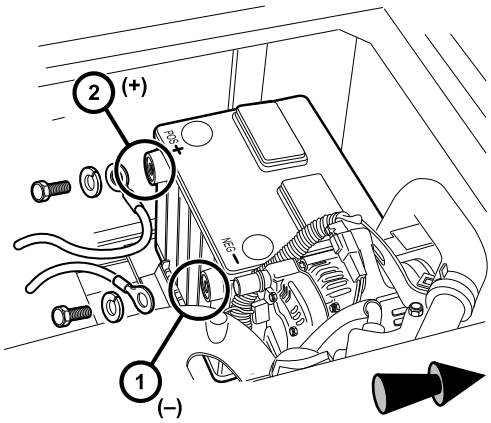
- **For vehicles with cargo beds, remove all cargo (including accessories) before raising the bed or servicing the vehicle. If the vehicle is equipped with a prop rod, ensure that it is securely engaged while bed is raised. Do not close bed until all persons are clear of cargo bed area. Keep hands clear of all crush areas. Do not drop cargo bed; lower gently and keep entire body clear. Failure to heed this warning could result in severe personal injury or death.**
- **Only trained technicians should service or repair the vehicle. Anyone doing even simple repairs or service should have knowledge and experience in electrical and mechanical repair. The appropriate instructions must be used when performing maintenance, service, or accessory installation.**
- **To avoid unintentionally starting the vehicle, disconnect battery and spark plug (Gas only) wires. See Disconnecting the Battery – Gasoline/Diesel Vehicle on page 13.**
- **Frame ground – Do not allow tools or other metal objects to contact frame when disconnecting battery cables or other electrical wiring. Do not allow a positive wire to touch the vehicle frame, engine, or any other metal component.**
- **Wear safety glasses or approved eye protection when servicing the vehicle. Wear a full face shield and rubber gloves when working on or near batteries.**
- **Do not wear loose clothing or jewelry such as rings, watches, chains, etc., when servicing the vehicle.**
- **Use insulated tools when working near batteries or electrical connections. Use extreme caution to avoid shorting of components or wiring.**
- **When servicing the vehicle with part of the vehicle on jack stands, do not operate the engine with the Forward/Reverse handle in either the FORWARD or REVERSE position. The all-wheel drive system will engage any wheel(s), front or rear, with traction (Figure 3, Page 14).**

DISABLING THE VEHICLE

1. Set the park brake.
2. Turn the key switch OFF and remove the key.
3. Place the Forward/Reverse control in the NEUTRAL position.
4. In addition, chock the wheels if servicing or repairing the vehicle.

DISCONNECTING THE BATTERY – GASOLINE/DIESEL VEHICLES

1. Disable the vehicle. **See Disabling the Vehicle on page 13.**
2. Disconnect the battery cables, negative (–) cable first, as shown **(Figure 2)**.
3. **Gasoline Vehicles Only:** Disconnect the spark plug wire(s) from the spark plug(s).



1. Remove negative battery cable.
2. Remove positive battery cable.

Connect battery cables in reverse order.

188

Figure 2 Battery Cable Removal

189

Figure 3 All-Wheel Drive Warning

CONNECTING THE BATTERY – GASOLINE/DIESEL VEHICLES

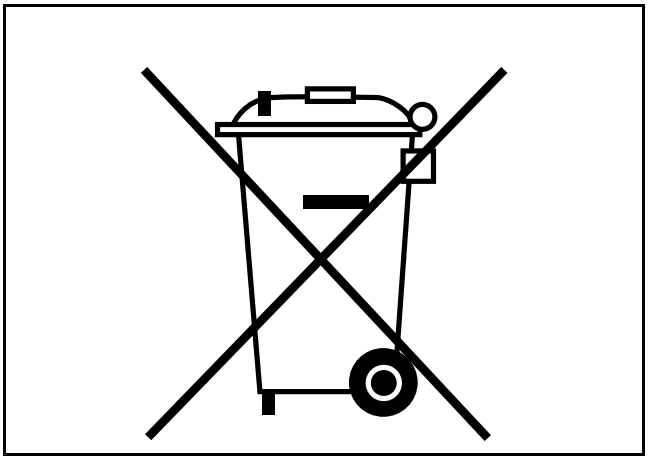
1. Connect the battery cables, positive (+) cable first.
2. Tighten battery terminals to 80 in·lb (9 N·m).
3. Coat terminals with Battery Terminal Protector Spray (CC PN 1014305) to minimize corrosion.
4. **Gasoline Vehicles Only:** Connect the spark plug wire(s) to the spark plug(s).

RECYCLING LEAD-ACID BATTERIES

⚠ WARNING

- **Lead-acid batteries contain lead (Pb), other metals, acids and other compounds. If improperly handled, they can contaminate both water and soil, causing environmental damage and personal injury.**

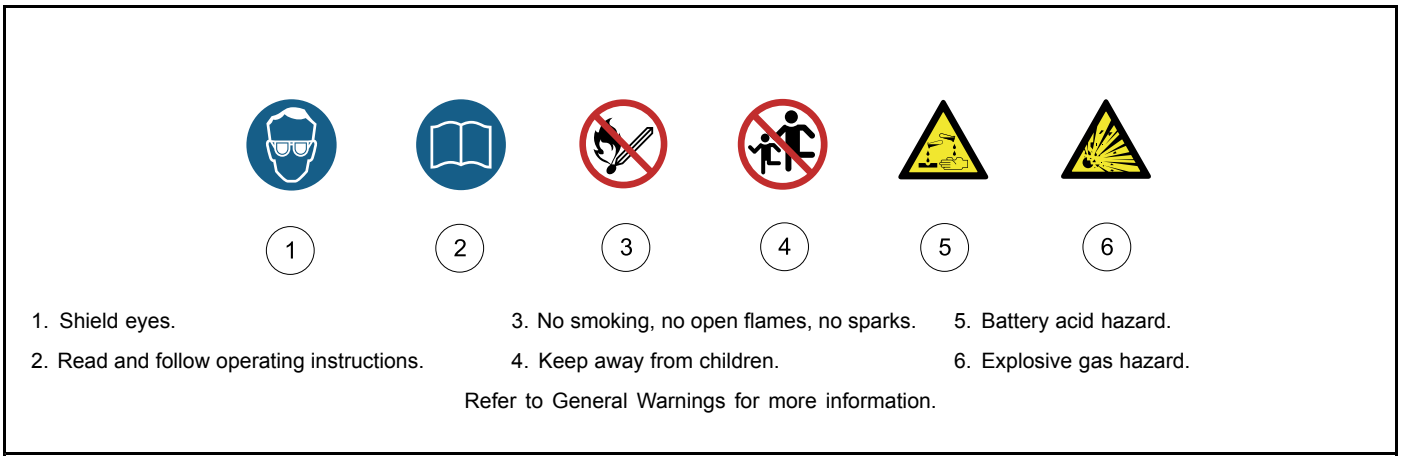
Lead-acid batteries are identified by the symbol shown below and should be properly recycled **(Figure 4)**. They cannot be disposed as municipal waste and must be collected separately. Responsibility for environmental protection must be shared, not only by the manufacturers of the batteries, but by people who use the batteries as well. Please contact your nearest Club Car dealer or distributor for information on how to properly recycle your batteries.



1403
Figure 4 Dispose of Lead-acid Batteries Properly

INTERNATIONAL SAFETY SYMBOLS ON BATTERIES

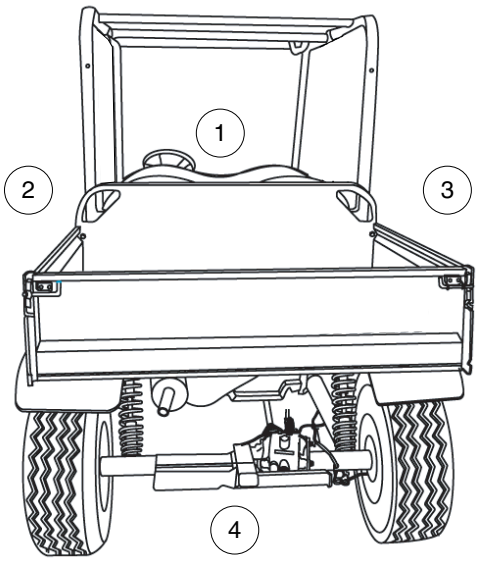
Anyone using, repairing, or servicing the vehicle must understand and heed the safety symbols on the vehicle battery or batteries.



1642
Figure 5 International Safety Symbols on Batteries

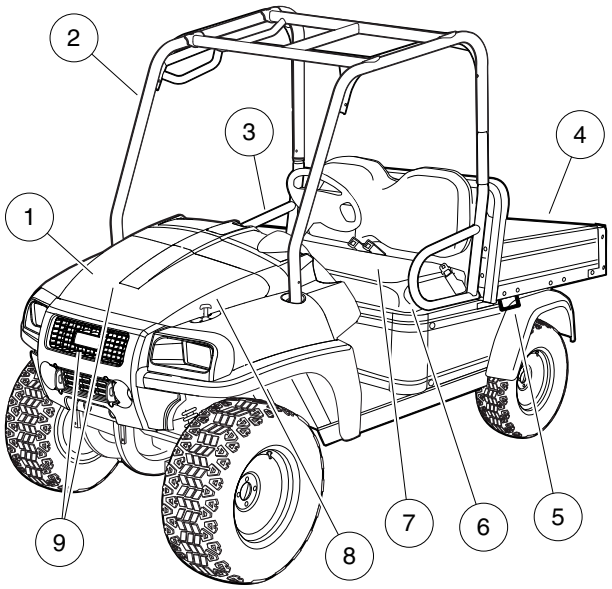
GENERAL INFORMATION

This manual includes operating procedures, maintenance, and regular servicing information for all gasoline and diesel Carryall 1500/1700 and XRT 1550/1550 SE vehicles. All operating procedures, maintenance, and regular servicing are identical unless otherwise noted.



The terms front (1), left-hand (2), right-hand (3) and rear (4) are used in this manual to indicate the sides as they are seen from the operator's seat.

1629
Figure 6 Vehicle Orientation



1. Hood 2. ROPS 3. Fuel Fill Cap 4. Cargo Bed 5. Bed Lift Latch – vehicles with manual (standard) bed lift only 6. Engine Compartment, Battery, Fuel Tank (under seat; for four-passenger model, engine compartment is under rear seat) 7. Seat 8. Brake Fluid Reservoir (under hood) 9. Radiator and Coolant Reservoir (under hood) – diesel engine model only

1630
Figure 7 Vehicle Components

MODEL IDENTIFICATION

The serial number of each vehicle is printed on a bar code decal mounted either below the passenger side cup holder or above the accelerator or brake pedal (Example: CC5819-123456) **(Figure 8)**.

The two letters (1) at the beginning of the serial number indicate the vehicle model. The following four digits (2) indicate the model year and production week during which the vehicle was built. The six digits (3) following the hyphen represent the unique sequential number assigned to each vehicle built within a given model year. **See following NOTE.**

NOTE: *Have the vehicle serial number available when ordering parts or making inquiries.*

A 17-digit Product Information Number (PIN) is included on this vehicle in the engine compartment, on the frame above the battery. This number may be used to register the vehicle where required.

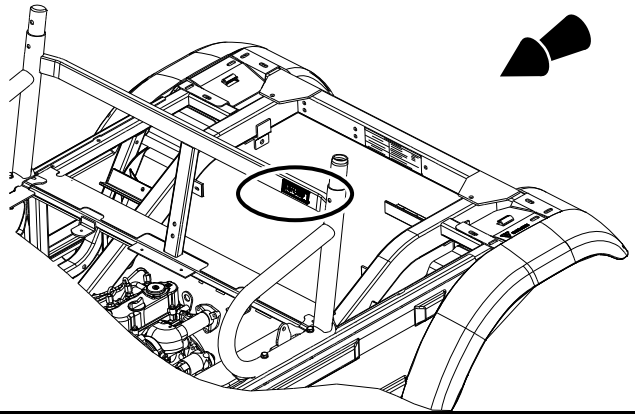
Build Code: The build code (4) is a five-digit number that appears on the vehicle serial number decal. The build code exists to enable the user to identify the correct owner's manual for a vehicle. This owner's manual is valid for the build code range indicated on the back cover of this owner's manual.

IDENTIFICATION NUMBERS

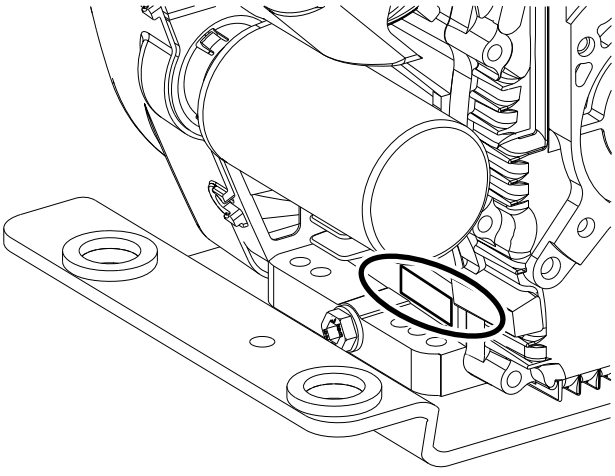
Write your vehicle model number, model serial number and engine serial number on the lines provided below. If needed, give these numbers to your dealer when you need parts or information for your vehicle. Make a record of the numbers. Keep the record and your Manufacturer's Statement of Origin in a safe place. If the vehicle is stolen, report the numbers to your local law enforcement agency.

Vehicle Model and Type	
Vehicle Serial Number **(Figure 8)**	
Year of Build **(Figure 8)**	
Vehicle PIN Number	
ROPS Serial Number **(Figure 9)**	
Engine Serial Number **(Figure 10) (Figure 11)**	
Differential Serial Number **(Figure 12)**	

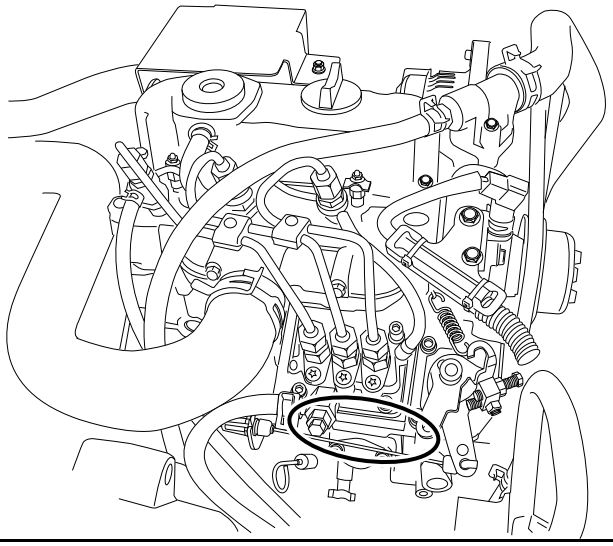
2843
Figure 8 Serial Number Decal with the Vehicle Build Code



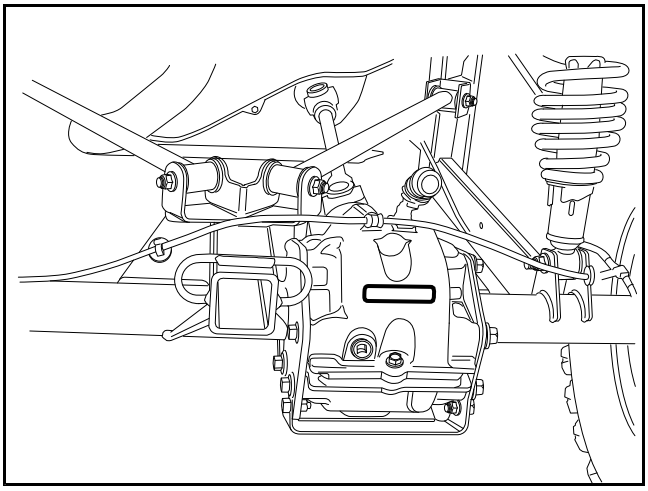
2474
Figure 9 ROPS Serial Number Location



830
Figure 10 Gasoline Engine Serial Number Location



831
Figure 11 Diesel Engine Serial Number Location



2703

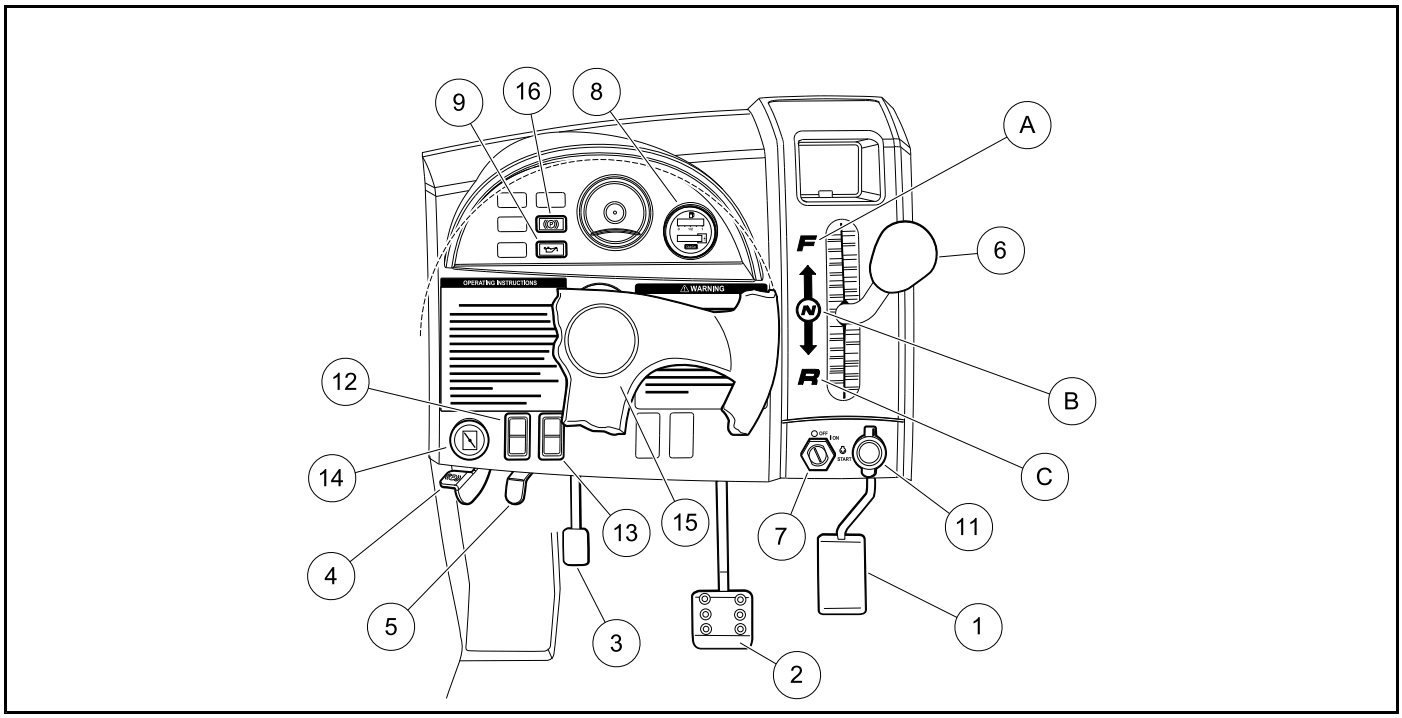
Figure 12 Differential Serial Number Location

CONTROLS AND INDICATORS

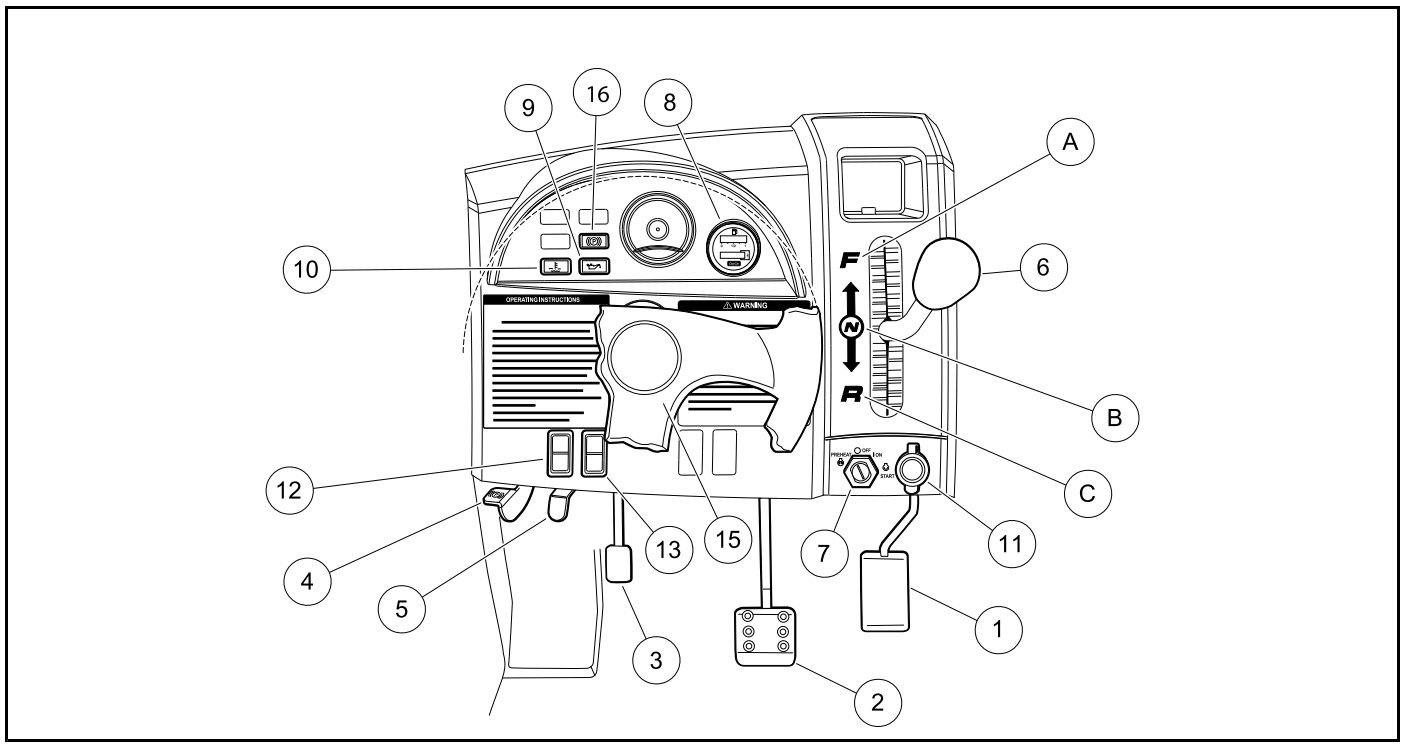
See General Warnings on page 12.

⚠ WARNING

- **Before allowing anyone to drive the vehicle, make sure the driver is familiar with all controls and operating procedures.**
- **Do not tamper with the high idle speed setting on the diesel vehicle. Doing so will void the warranty, as well as damage the engine and other components, and could result in property damage, personal injury, or death due to unsafe speeds.**
- **Do not shift the Forward/Reverse handle while the vehicle is in motion.**
- **Engine must be at idle before shifting the Forward/Reverse handle. Failure to do so may result in injury to inattentive passengers and (or) damage to the vehicle.**
- **To avoid unintentionally starting or rolling the vehicle, place attachment on the ground, set the park brake, place the Forward/Reverse handle in the NEUTRAL position, turn the key switch to the OFF position, and remove the key when leaving the vehicle.**



2740
Figure 13 Instrument Panel – Gasoline Vehicles



2741
Figure 14 Instrument Panel – Diesel Vehicles

KEY SWITCH – GASOLINE VEHICLES

The key switch (7) is mounted on the instrument panel to the right of the steering column **(Figure 13, Page 20)**. It has three positions: OFF, ON, and START.

To start the vehicle, place the Forward/Reverse handle in the NEUTRAL position and turn the key to the START position, and hold it there until the engine starts. Activate the choke (14) as necessary. If the engine does not start after 10 to 15 seconds, release the key and repeat the procedure. Once the engine starts, release the key and it will return to the ON position. The engine will idle in neutral. The engine will continue to idle until the key is turned to the OFF position. **See following WARNING, CAUTION, and NOTE.**

⚠ WARNING

- **Moving parts! Keep clear of the engine compartment while the engine is running.**

CAUTION

- **Do not shift the Forward/Reverse handle while the accelerator pedal is pressed. Shift the handle only when the vehicle is at a complete stop and the engine is at idle. Failure to heed this caution could result in damage to the transmission.**

NOTE: *When the key is turned to the OFF position, the main vehicle systems are disabled. The key switch may be used as an emergency shut-off.*

The key can be removed only when the key switch is in the OFF position.

KEY SWITCH – DIESEL VEHICLES

The key switch (7) is mounted on the instrument panel to the right of the steering column **(Figure 14, Page 21)**. It has four positions: PREHEAT, OFF, ON, and START.

Use the PREHEAT feature if the temperature falls below 23 °F (–5 °C). Do not hold the key in the PREHEAT position longer than 20 seconds. To preheat the glow plugs in cold weather, turn the key to the PREHEAT position, and hold it there for 10 to 15 seconds. Then turn the key to the START position, and hold it there until the engine starts. If the engine does not start after 10 to 15 seconds, turn the key to the OFF position and repeat the procedure. Once the engine starts, release the key and it will return to the ON position. The engine will idle in neutral. The engine will continue to idle until the key is turned to the OFF position. **See previous WARNING, CAUTION, and NOTE.**

FORWARD/REVERSE CONTROL

The Forward/Reverse handle (6) is located on the right side of the instrument panel **(Figure 13 and Figure 14)**. The handle has three distinct positions: FORWARD (A), NEUTRAL (B), and REVERSE (C). Push the handle up to operate the vehicle in the forward direction, or pull the handle down to operate the vehicle in reverse. The engine can be started only when the handle is in the NEUTRAL (middle) position. The engine must be at idle before shifting the Forward/Reverse handle. **See preceding WARNING and CAUTION.**

This vehicle operates at a reduced speed in reverse. If equipped with a reverse buzzer, the reverse buzzer will sound as a warning when the Forward/Reverse handle is in the REVERSE position.

ACCELERATOR PEDAL

The accelerator pedal (1) is the pedal farthest to the right **(Figure 13 and Figure 14)**.

With the engine running and the Forward/Reverse handle in the FORWARD or REVERSE position, vehicle speed will increase as the accelerator pedal is pressed. When the accelerator pedal is released, it will return to the original position and the engine will idle. **See preceding WARNING and CAUTION.**

BRAKE PEDAL

The brake pedal (2) is located to the immediate left of the accelerator pedal **(Figure 13 and Figure 14)**. To slow or stop the vehicle, press the brake pedal.

PARK BRAKE

The park brake pedal (3) is located to the left of the brake pedal **(Figure 13 and Figure 14)**. To engage the park brake, first apply pressure to the brake pedal, then firmly press the park brake pedal until it latches into place. When the park brake is engaged, the park brake indicator light will illuminate (16). To disengage the park brake, pull the park brake release handle (4) **(Figure 15)**. **See following WARNING.**

⚠ WARNING

- **The park brake has multiple locking positions and should be firmly locked to prevent the vehicle from rolling.**

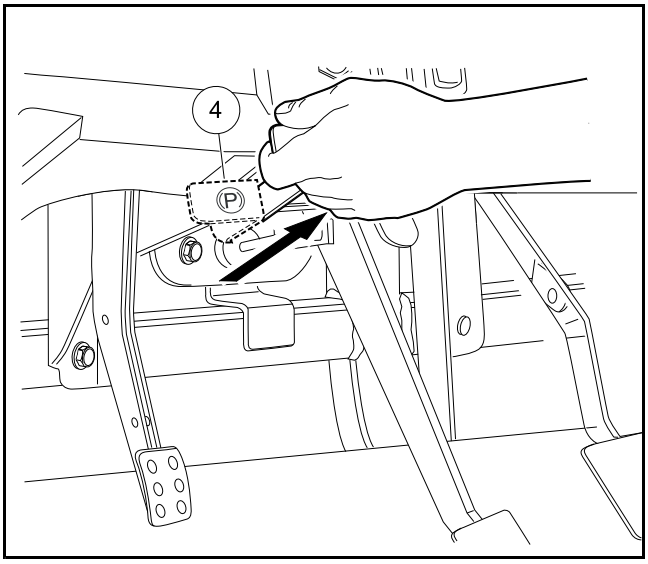


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Figure 15 Park Brake Release

STEERING ADJUSTMENT LOCK

The steering wheel position is adjustable. To adjust the steering wheel position, press down on the steering adjustment lock lever (5), then move the steering wheel to the desired position **(Figure 13, Page 20)** and **(Figure 14, Page 21)**. While holding the steering wheel in the desired position, pull up on the steering adjustment lock lever to firmly lock the steering column in position. **See following WARNING.**

⚠ WARNING

- **Ensure that the steering wheel lock is fully engaged before operating the vehicle.**

12-VOLT ACCESSORY OUTLET

The 12-volt accessory outlet (11) is located to the right of the key switch **(Figure 13 and Figure 14)**. It provides a constant 12VDC with the key switch in the ON or OFF position. **See following NOTE.**

NOTE: *Extended use of this accessory outlet can cause the battery to become heavily discharged.*

LOW OIL WARNING LIGHT

The low oil warning light (9) is located on the instrument panel just to the left of the steering column **(Figure 13 and Figure 14)**. If the warning light comes on, oil should be checked and added to the engine as necessary before vehicle use continues. The vehicle should never be driven when the low oil warning light remains lit. If the warning light goes on and off, the vehicle may be driven, but oil should be added at the first opportunity. If the oil level is correct and the warning light remains lit, have a trained technician check the vehicle. **See following CAUTION.**

CAUTION

- **Failure to add oil immediately when the low oil warning light stays on may result in permanent engine damage.**

FUEL GAUGE/HOUR METER

The fuel gauge and hour meter (8) are housed together on the right side of the instrument panel **(Figure 13 and Figure 14)**. The fuel gauge operates when the key switch is in the ON position and allows the operator to monitor the fuel level in the vehicle. The hour meter operates only when the engine is running, and should be used by the trained technician to track vehicle usage and determine when periodic service procedures are required. **See Periodic Service Schedule on page 39.**

HEADLIGHT CONTROL

The headlight control (12) is located on the left side of the instrument panel **(Figure 13 and Figure 14)**. Press the headlight rocker switch to turn the headlights on or off. **See following NOTE.**

NOTE: *Using the headlights for extended periods while the engine is either off or idling will discharge the battery.*

ELECTRIC BED LIFT

Vehicles with Electric Bed Lift Option

The electric bed lift switch (13) is located on the instrument panel to the left of the key switch **(Figure 13 and Figure 14)**. **See following NOTE.**

NOTE: *Remove cargo (including accessories) before raising the bed.*

To lift the bed, push up and hold the rocker switch in the upper position. Release the switch to stop the lifting operation. To close the bed, press down and hold the switch in the lower position. The bed lift will make a loud clicking sound to signal that the bed is in the rest position.

HIGH-TEMPERATURE WARNING LIGHT (DIESEL VEHICLES ONLY)

The high-temperature warning light (10) is located on the instrument panel to the left of the steering column, next to the low oil warning light (9) **(Figure 14, Page 21)**. The diesel engine is liquid-cooled; if the engine coolant has exceeded its normal safe operating temperature, the warning light will illuminate. If the warning light lights up, stop the vehicle and allow it to idle for approximately five minutes before stopping the engine. Contact a Club Car dealer/distributor or a trained technician. **See following WARNING.**

⚠ WARNING

- **Allow the engine to cool before servicing the engine coolant system. Engine coolant can cause severe burns.**

ROLL-OVER PROTECTIVE STRUCTURE AND SEAT BELTS

Carryall 1500/1700 and XRT 1550/1550 SE vehicles are equipped with a Roll-Over Protective Structure (ROPS) and seat belts for each occupant. **See following WARNING.**

⚠ WARNING

- **The ROPS must be properly installed before operating the vehicle. The manufacturer strongly urges that the vehicle's occupants be properly restrained at all times with the seat belts provided.**

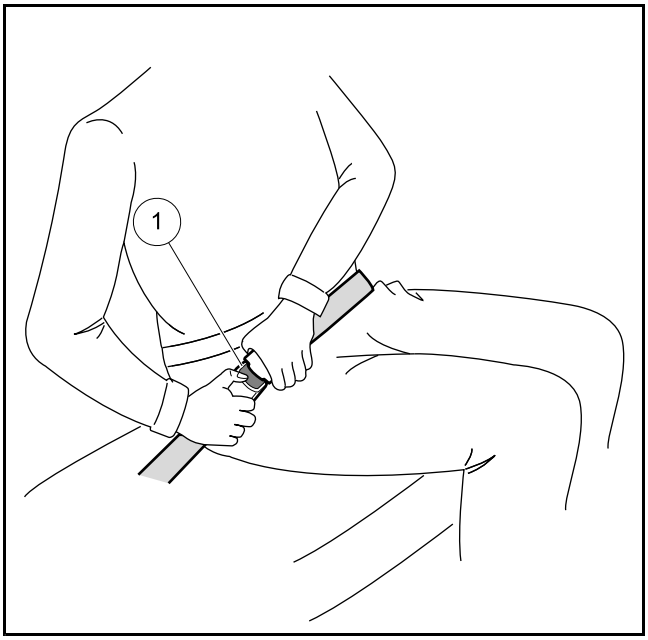
Pregnant woman: Consult your doctor for specific recommendations. The seat belt should be worn securely and as low as possible over the hips and not on the waist.

Injured person: Depending on the injury, first check with your doctor for specific recommendations.

To secure the seat belt, sit up straight and well back in the seat. Pull the seat belt out of the retractor and insert the tab into the buckle. A click will be heard when the tab locks into the buckle. Position the lap belt as low as possible on the hips – not on the waist.

The retractor will lock the belt during a sudden stop. It also may lock if the occupant leans forward too quickly. A slow, easy motion will allow the belt to extend, and the occupant can move freely. If the seat belt cannot be pulled out of the retractor, firmly pull the belt and release it. It should then pull smoothly out of the retractor.

To release the seat belt, press the buckle release button (1) and allow the belt to retract **(Figure 16)**. If the belt does not retract smoothly, pull it out and check for kinks or twists. Then make sure it remains free of twists as it retracts.



194

Figure 16 Release Seat Belt

⚠ WARNING

- **Do not use the seat belts on a vehicle that is not equipped with the ROPS. Doing so could result in property damage, personal injury, or death.**
- **Do not remove or modify any component of the ROPS structure. Doing so will result in voiding the ROPS certification and could weaken the ROPS, resulting in serious injury or death.**

WARNING CONTINUED ON NEXT PAGE

⚠ WARNING

- **Do not operate the vehicle if the ROPS is damaged. If the ROPS is damaged, replace the structure. Do not attempt repair.**
- **The driver and passenger must be restrained at all times with the seat belts provided to help prevent injury in the event of sudden braking, collision, or roll-over.**
- **In the event of a roll-over, do not attempt to jump or otherwise exit the vehicle. Remain seated with seat belt fastened and with arms and legs inside the vehicle.**
- **After inserting the tab, make sure the tab and buckle are locked and that the belt is not twisted.**
- **Loose fitting seat belts could increase the chance of injury due to sliding under the belt if sudden braking should occur. Keep the seat belt snug and positioned as low on the hip bone as possible.**
- **Use a single seat belt for one person at a time. Do not use a single seat belt for two or more people – this includes children.**
- **No more than one person per bucket seat at one time. No more than two persons per bench seat at one time. Do not allow people to ride in any part of the vehicle that is not equipped with a seat and a seat belt. Do not allow a passenger to hold a child in his or her lap while the vehicle is moving.**
- **This vehicle is not designed to meet child seat compatibility requirements. Children requiring a child safety seat must not ride on the vehicle. Comply with state and local laws pertaining to child safety.**

⚠ CAUTION

- **Be careful not to damage the seat belt webbing or hardware.**
- **Inspect the seat belt system periodically. Check for cuts, fraying, and loose parts. Damaged parts should be replaced immediately. Do not disassemble or modify the system.**
- **Keep seat belts clean and dry. If cleaning is necessary, use a mild soap and lukewarm water solution. Do not use bleach, dye or abrasive cleaners as they may severely weaken the seat belts.**
- **Do not insert coins, clip, etc. in the buckle as this may prevent the tab from locking into the buckle properly.**
- **If the seat belt does not function normally, contact your dealer/distributor or trained technician immediately. Do not occupy the seat until the seat belt is repaired.**

SEAT LATCH AND ADJUSTMENT

The vehicle seats are hinged to allow easy access to the engine compartment. To raise the seat bottom, grasp the rear side of the seat bottom, and pull firmly in a forward/upward direction. **See following WARNING.**

⚠ WARNING

- **Make sure seat hinges and latches are securely engaged before operating the vehicle.**

Vehicles with bucket seat option:

The driver-side bucket seat is adjustable and can be moved forward or backward to accommodate the driver. To adjust this seat, push the lever located under the driver seat to the left (towards outside of the vehicle). Position the seat, and return the lever to its original position. **See following WARNING.**

⚠ WARNING

- **Do not adjust the driver-side seat while the vehicle is in motion.**

To adjust the passenger-side seat:

1. Remove the seat from the vehicle.
2. Remove the four bolts and washers from the bottom of the seat mounting plate.
3. Align the mounting plate holes with holes in the seat to achieve the desired seat position.
4. Install washers and bolts, and tighten to 96 in·lb (10.8 N·m).
5. Install the seat. **See preceding WARNING "Make sure seat hinges and latch...".**

PRE-OPERATION AND DAILY SAFETY CHECKLIST

Each Club Car vehicle has been thoroughly inspected and adjusted at the factory; however, upon receiving your new vehicle(s), you should become familiar with the controls, indicators, and operation. Carefully inspect each vehicle to ensure that it is in proper working condition before accepting delivery.

Use the following list as a guide to inspect the vehicle. This list should be used daily and in conjunction with the Performance Inspection on page 28 and the Periodic Service Schedule on page 39 to ensure that the vehicle is in proper working condition. Any problems should be corrected by a Club Car dealer/distributor or a trained technician.

- **General:** All the parts should be in place and properly installed. Be sure that all nuts, bolts, and screws are tight. Check hose clamps for tight fit.
- **Safety and information decals:** Check to ensure that all safety and information decals are in place and can be read easily. **See Safety Decal Identification on page 5.**
- **ROPS:** Check to ensure the ROPS is not damaged and all hardware is secure. **See Roll-Over Protective Structure and Seat Belts on page 25.**
- **Seat belts:** Visually inspect for cuts, fraying, and loose parts. **See Roll-Over Protective Structure and Seat Belts on page 25.**
- **Tires:** Visually inspect tires for wear, damage, and proper inflation on a daily basis. **See Vehicle Specifications on page 61.**
- **Battery:** Check electrolyte to ensure it is at the proper level **(Figure 45, Page 56)**. Check battery posts. Wires should be tight and free of corrosion, and battery should be fully charged.
- **Engine:** Check for proper engine oil and coolant levels and leaks. **See Engine Oil on page 44.** Check air filter and replace if necessary.

  Inspect air intake for blockage.

- **Fuel:** Check fuel level. **See Fueling Instructions on page 53.** Check fuel tank, lines, fuel cap, pump, and fuel filters for fuel leakage. Drain water from the fuel filter (diesel vehicle). **See Draining Water from Fuel Filter on page 54.**
- **Hydraulic brakes:** Check fluid level. Fill with DOT 5 brake fluid only. **See Brake Fluid Reservoir on page 42.** Wear in the brakes before initial vehicle operation. On a flat, open surface, accelerate the vehicle to moderate speed, then apply the brakes under modest, steady pressure. Repeat this procedure eight to twelve times. **See following NOTE.**

NOTE: *Perform the wear-in procedure when the vehicle has been in operation for less than a week, or when the brake pads or rotor have been replaced.*

- **Performance Inspection:** Inspect as instructed. **See Performance Inspection on page 28.**

PERFORMANCE INSPECTION

After you have familiarized yourself with the vehicle controls and have read and understood the driving instructions, take the vehicle for a test drive. Use the following list, in addition to the *Pre-Operation and Daily Safety Checklist*, as a guide to inspect the vehicle daily for proper operation. Any problems should be corrected by a Club Car dealer/distributor or a trained technician.

- **Forward/Reverse shifter:** Check for proper operation. **See Controls and Indicators on page 20.**
- **Brakes:** Be sure the brakes function properly. When brake pedal is fully pressed under moderate pressure, the vehicle should come to a smooth, straight stop. If the vehicle swerves or fails to stop, have the brake system checked and adjusted as required. When the brake pedal is fully pressed under heavy pressure, the pedal should feel firm and the distance between the back of the pedal and the floorboard should be a minimum of 1.25 inches (3.2 cm). Brake adjustment must be maintained so the brake pedal cannot be pressed to the floorboard under any circumstance.
- **Park brake:** When latched, the park brake should lock the wheels and hold the vehicle stationary on an incline of 20% or less.
- **Reverse buzzer:** If equipped with a reverse buzzer, the reverse buzzer should sound as a warning when the Forward/Reverse handle is in the REVERSE position.
- **Steering:** The vehicle should be easy to steer and should not have any play in the steering wheel. Be sure the steering wheel adjustment lever is securely locked into position.
- **Accelerator:** After starting the engine with the key switch and placing the Forward/Reverse handle in the FORWARD position, the vehicle should accelerate smoothly to full speed as the accelerator pedal is pressed. When the pedal is released it should return to the original position, and the engine should idle. This vehicle operates at reduced speed in reverse.
- **Governor:** Check maximum vehicle speed. The vehicle should operate in forward at a maximum speed of 25 mph (40 km/h) on a level surface.
- **General:** Listen for any unusual noises such as squeaks or rattles. Check the vehicle's ride and performance. Have a dealer or a trained technician investigate anything unusual.

DRIVING INSTRUCTIONS

⚠ WARNING

- **Only licensed drivers should be allowed to drive the vehicle.**

WARNING CONTINUED ON NEXT PAGE

⚠ WARNING

- **Before allowing anyone to drive the vehicle, make sure the driver is familiar with all controls and operating procedures.**
- **No one under the age of 16 years should be allowed to drive the vehicle.**
- **No more than one person per bucket seat at one time. No more than two persons per bench seat at one time. Do not allow people to ride in any part of the vehicle that is not equipped with a seat and a seat belt. Do not allow a passenger to hold a child in his or her lap while the vehicle is moving.**
- **Do not allow riders in the cargo bed.**
- **For night use, the vehicle must be equipped with headlights, taillights, and reflectors.**
- **The vehicle is not specially equipped for handicapped persons. Be sure all persons can properly operate the vehicle prior to allowing them to drive the vehicle.**
- **Be sure all passengers are capable of securing themselves in a vehicle before allowing them to ride in one.**
- **Stop the vehicle before shifting the Forward/Reverse handle. Engine must be at idle before shifting the Forward/Reverse handle. Failure to do so may result in injury to inattentive passengers and (or) damage to the vehicle.**
- **To help avoid being struck, do not stand in front of or behind the vehicle.**
- **Do not leave children unattended on vehicle.**
- **Children requiring a child safety seat must not ride on the vehicle. Comply with state and local laws pertaining to child safety.**
- **Operate the vehicle from the driver seat only.**
- **To help prevent falls from the vehicle, remain seated with seat belt fastened and hold on to hand holds at all times. Driver should keep both hands on the steering wheel when the vehicle is in motion.**
- **To help prevent the possibility of serious injury, keep entire body inside the vehicle.**
- **To help prevent overturning the vehicle, drive slowly in turns.**
- **To help prevent overturning the vehicle, drive slowly straight up and down slopes. Avoid driving the vehicle on slopes exceeding 20% incline.**
- **Avoid stopping a loaded vehicle on a hill. If a loaded vehicle must be stopped on a hill, avoid sudden starts or rolling backwards and stopping suddenly. Failure to heed this warning could result in overturning the vehicle.**
- **To help avoid possible injury to inattentive passengers and (or) damage to the vehicle, avoid sudden starts, sudden stops, and abrupt turns.**
- **To help avoid the possibility of losing control of or overturning the vehicle, reduce speed for adverse driving conditions such as wet grass or rough terrain.**
- **Do not use the vehicle on public roads. It is neither designed nor intended for street use and should not be licensed for use on public roads.**
- **The vehicle should be driven in only specified areas by trained drivers.**
- **Do not drive while under the influence of alcohol, drugs, or medications.**
- **Use brakes to reduce speed when coasting downhill.**
- **Never attempt jumps.**
- **Keep away from drop-offs, steep slopes, and unstable surfaces.**
- **Avoid extremely hard braking in reverse.**
- **This vehicle is not intended to be used where risk of falling objects exists. If your vehicle will be used in such an environment, contact your local dealer.**

No one should drive the vehicle without first being instructed in the proper operation and use of vehicle controls. An experienced operator should accompany each first-time driver on a test drive before allowing the driver to operate the vehicle alone.

To ensure safe operation of the vehicle, follow exactly and in order all of the following procedures. Read and understand all instructions before driving the vehicle.

STARTING THE VEHICLE

1. Read safety and information decals located on the vehicle.
2. Be sure load, if any, is secure.
3. Study and understand all controls.
4. Be sure all passengers are seated with their seat belts fastened and are holding on to hand holds. Driver should have both hands on the steering wheel.
5. Make sure wheels are turned in desired direction and nothing is in your path.
6. Make sure the Forward/Reverse handle is in the NEUTRAL position.
7. Press and hold the brake pedal.
8. To start the vehicle
   - 8.1. **Gasoline vehicles:** Turn the key to the START position and hold it there until the engine starts. Activate the choke as necessary. If the engine does not start after 10 to 15 seconds, release the key and repeat the procedure. Once the engine starts, release the key and it will return to the ON position. The engine will idle in neutral.
   - 8.2. **Diesel vehicles:** To preheat glow plugs in cold weather, turn the key to the PREHEAT position and hold it there for 10 to 15 seconds. Turn the key to the START position and hold it there until the engine starts. If the engine does not start after 10 to 15 seconds, turn the key to the OFF position and repeat the procedure. Once the engine starts, release the key and it will return to the ON position. The engine will idle in neutral.
9. Release the park brake.
10. Keep the brake pedal engaged, and select direction of travel by placing the shift handle in the desired position **(Figure 13 or Figure 14)**. The engine must be at idle before the shift handle is moved. If equipped with a reverse buzzer, the reverse buzzer will sound as a warning when the Forward/Reverse handle is in the REVERSE position.
11. Release the brake pedal completely, and then slowly press the accelerator pedal. As the accelerator pedal is pressed, the vehicle will begin to move. Vehicle speed will increase as the accelerator is pressed until full speed is reached. All-wheel drive will automatically drive the appropriate wheel(s) as required. **See following WARNING.**

⚠ WARNING

- **Operator must control vehicle speed when going downhill.**
- **Never shift the vehicle out of the FORWARD position while going downhill. If you do, you will not be able to shift into the REVERSE position or back into the FORWARD position until stopped.**
- **Press the brake pedal as necessary and press the accelerator pedal partially when descending a hill. With the accelerator pedal partially pressed, the governor will cause the engine to assist the brakes in controlling downhill speed.**

ALL-WHEEL DRIVE (AWD) OPERATION

Carryall 1500/1700 and XRT 1550/1550 SE vehicles feature an all-wheel drive (AWD) system. The AWD system automatically directs power to the wheel, or wheels, that have the most traction, providing optimum traction at all times. For example, if all wheels except the rear passenger-side wheel lose traction, then power will be directed to the rear passenger-side wheel. The all-wheel drive vehicle can adapt traction for a wide variety of driving surfaces and conditions. **See following WARNING.**

⚠ WARNING

- **When servicing the vehicle with part of the vehicle on jack stands, do not operate the engine with the Forward/Reverse handle in either the FORWARD or REVERSE position. The all-wheel drive system will engage any wheel(s), front or rear, with traction. See Figure 3 on page 14.**
- **The diameter of all tires on the vehicle must be equal; otherwise the all-wheel drive system will not operate as intended and could result in severe personal injury or death. Never install tires of different diameters on the vehicle.**

Under most circumstances the driver will not need to do anything to engage the AWD system; however, the front differential may become locked (rotate at the same speed regardless of the terrain) under certain conditions. If the front differential becomes locked, drive slowly in reverse for at least 10 feet (3 meters), then brake gently. **See following WARNING.**

⚠ WARNING

- **Reduced steering control can occur if the front differential becomes locked. To help prevent this condition, avoid extremely hard braking in reverse.**

STOPPING THE VEHICLE

To stop the vehicle, release the accelerator pedal and press the brake pedal until the vehicle comes to a complete stop. **See following WARNING and CAUTION.**

⚠ WARNING

- **Driving through water may affect the brakes. After driving through water, check effectiveness of the brakes by gently pressing the brake pedal. If the vehicle does not slow down at the normal rate, continue to press the brake pedal until the brakes dry out and normal performance returns.**

⚠ CAUTION

- **When stopped on a hill, use the brake pedal to hold your position. Do not use the accelerator pedal to hold position.**

PARKING AND LEAVING THE VEHICLE

1. After stopping the vehicle, firmly set the park brake until it is fully engaged and prevents the vehicle from rolling.
2. Turn the key switch to the OFF position, remove the key, and place the Forward/Reverse handle in the NEUTRAL position.

BED LATCH AND PROP ROD

See General Warnings on page 12.

The bed latch **(Figure 17)** has an automatically engaging prop rod and prop rod track **(Figure 18)** as standard features. To lift the bed, pull the bed latch handle toward the rear of the vehicle and lift the bed. The prop rod will come to rest in one of the notches in the prop rod track. To close the bed, lift the bed so that the prop rod is no longer supported in one of the track notches. Push the prop rod toward the front of the vehicle to free it from the track notch and gently lower the bed. DO NOT drop the bed. **See following DANGER, WARNING, and NOTE.**

⚠ DANGER

- **Use caution when working under bed. Be sure prop rod is secure. Otherwise the bed will fall, resulting in severe personal injury or death.**

⚠ WARNING

- **For vehicles with cargo beds, remove all cargo (including accessories) before raising the bed or servicing the vehicle. If the vehicle is equipped with a prop rod, ensure that it is securely engaged. Do not close bed until all persons are clear of cargo bed area. Keep hands clear of all crush areas. Do not drop cargo bed; lower gently and keep entire body clear. Failure to heed this warning could result in severe personal injury or death.**

NOTE: *Vehicles are equipped with an automatically engaging prop rod* ***(Figure 18)****, unless equipped with the electric bed lift accessory.*

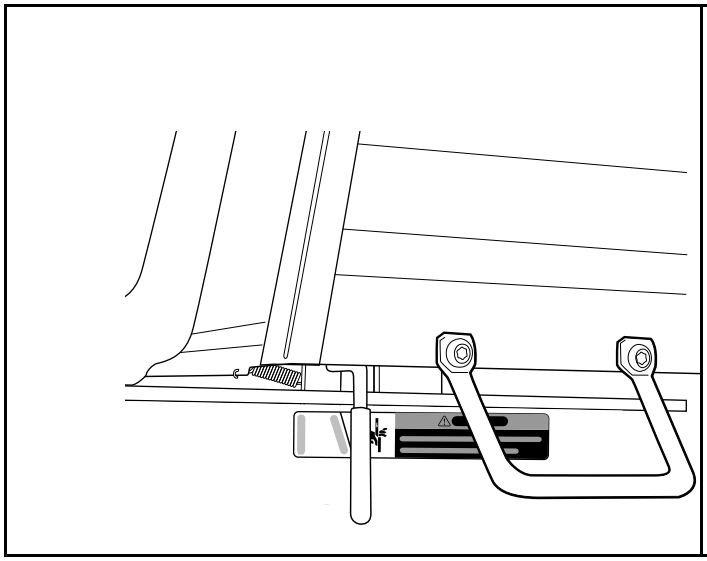


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Figure 17 Bed Latch

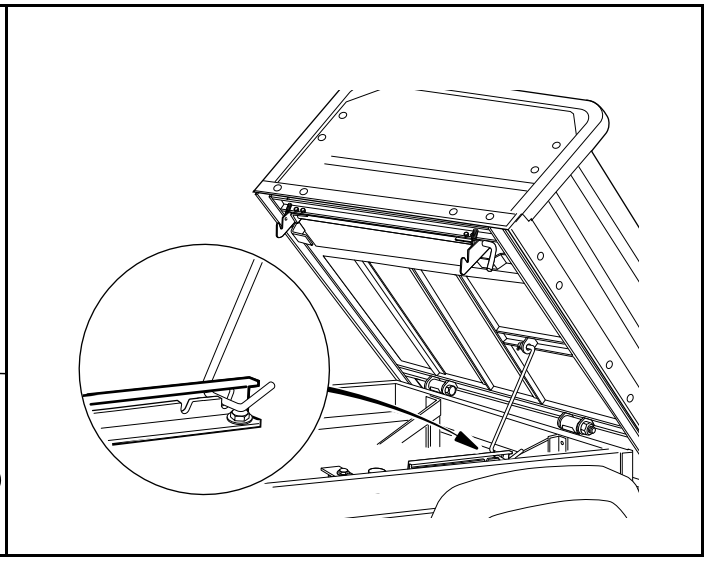

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Figure 18 Prop Rod

LOADING AND UNLOADING CARGO

⚠ WARNING

- **Firmly engage park brake before loading vehicle.**
- **Do not allow riders in the cargo bed.**
- **Reduce vehicle load and speed when driving up or down slopes or on uneven terrain.**
- **Do not exceed rated vehicle capacity. Rated capacity is for level surfaces only.**
- **Overloading can affect vehicle handling or cause component failure, resulting in loss of control of vehicle and possible severe personal injury or death.**
- **Do not load tailgate. The tailgate should be in the upright position and latched securely while the vehicle is in motion.**

WARNING CONTINUED ON NEXT PAGE

⚠ WARNING

- **To help avoid shifting vehicle load and possibly overturning the vehicle, avoid sudden starts, sudden stops and abrupt turns. Make sure cargo is well secured.**
- **The cargo's center of gravity can affect the handling, steering, and braking of the vehicle. Avoid top-heavy loads. When the vehicle is loaded, reduce speed and drive slowly in turns.**
- **To help prevent cargo from shifting and possibly injuring a passenger or affecting the vehicle's handling, make sure cargo is well secured.**
- **Unload cargo bed before raising vehicle with a lift, hoist, or jack.**
- **Avoid stopping on a hill when loaded. If you must stop on a hill, avoid sudden starts, or rolling backwards and stopping suddenly. Failure to heed this warning may cause vehicle to overturn, possibly resulting in severe personal injury.**
- **Reduce speed and avoid sudden stops when backing up. Failure to do so may cause the vehicle to overturn or flip over backwards.**
- **Maximum cargo load must be reduced by the weight of optional equipment.**

Center and secure cargo as far forward as possible in the cargo bed. Do not overload the vehicle. **See Vehicle Load Capacities on page 33** for vehicle capacities.

VEHICLE LOAD CAPACITIES

Occupant Capacity

The occupant capacity is the maximum allowable weight for occupants (operator and passengers) to operate the vehicle safely.

Cargo Capacity

The cargo capacity is the maximum amount of load that the vehicle can haul in the cargo bed and includes the weight of vehicle accessories and trailer tongue weight.

Trailer Tongue Weight

The maximum allowable amount of weight exerted by the trailer tongue onto the trailer hitch.

Gross Trailer Weight

Gross trailer weight is the combination of the trailer weight and the trailer load weight.

Vehicle Rated Capacity

The vehicle rated capacity is the maximum amount of weight on the vehicle. This capacity includes weight of occupants, bed load, accessories, and trailer tongue weight, but does not include gross trailer weight.

Maximum Gross Vehicle Weight

The maximum gross vehicle weight is the combination of the vehicle weight and the vehicle rated capacity. The stated maximum gross vehicle weight must not be exceeded to maintain safe vehicle operation.

Maximum Gross Vehicle Combination Weight

The maximum gross vehicle combination weight includes the maximum gross vehicle weight and the gross trailer weight. The stated maximum gross vehicle combination weight must not be exceeded to maintain safe vehicle operation.

Refer to Figure 19 and Figure 20 for the following specifications.

	2-Passenger Gasoline and Diesel Vehicles	2-Passenger Vehicles with High Capacity Option	4-Passenger and Diesel Vehicles
A: Occupant capacity	400 lb (181 kg)	400 lb (181 kg)	800 lb (181 kg)
B + C: Cargo capacity [cargo bed load (B) including trailer tongue weight (C)]	800 lb (363 kg)	1050 lb (476 kg)	800 lb (680 kg)
C: Trailer tongue weight	150 lbf (667 N)	150 lbf (667 N)	150 lbf (667 N)
D: Gross trailer weight	1300 lb (590 kg)	1300 lb (590 kg)	1300 lb (590 kg)
A + B + C: Vehicle rated capacity	1200 lb (544 kg)	1450 lb (658 kg)	1600 lb (862 kg)
A + B + C + Vehicle Weight: Maximum gross vehicle weight	Gas and Diesel: 2750 lb (1247 kg)	Gas and Diesel: 3012 lb (1366 kg)	Gas: 3230 lb (1465 kg) Diesel: 3350 lb (1520 kg)
Maximum gross vehicle weight + D: Maximum gross vehicle combination weight	Gas: 3930 lb (1782 kg) Diesel: 4050 lb (1837 kg)	Gas: 4180 lb (1896 kg) Diesel: 4300 lb (1950 kg)	Gas: 4530 lb (2054 kg) Diesel: 4650 lb (2109 kg)

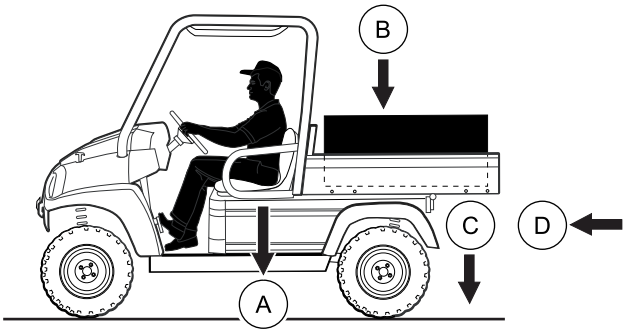

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Figure 19 Vehicle Load Capacity – Two-Passenger Vehicles

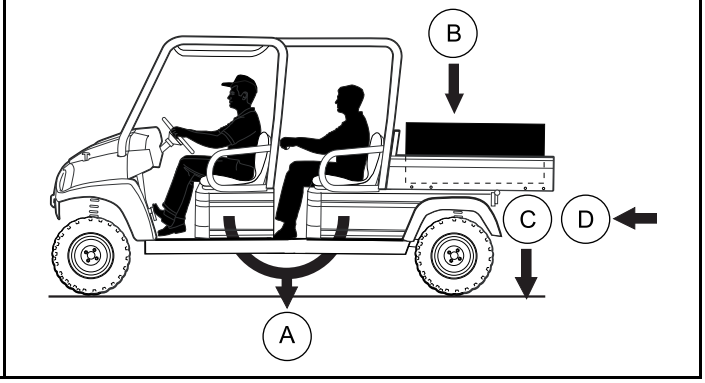

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Figure 20 Vehicle Load Capacity – Four-Passenger Vehicles

TOWING WITH THE VEHICLE

⚠ WARNING

- **Do not tow a vehicle or trailer on public streets or highways.**
- **Normal vehicle operating speed should be reduced when towing.**
- **Extreme caution should be used when towing.**
- **Do not allow riders in the vehicle or trailer being towed.**
- **Avoid sudden starts, sudden stops, and tight turns when towing.**
- **Avoid stopping on a hill when towing. If you must stop on a hill, avoid sudden starts, or rolling backwards and stopping suddenly. Failure to heed this warning may cause vehicle to overturn, possibly resulting in severe personal injury.**
- **Stay clear from the area between the tow vehicle and the towed vehicle or trailer.**

Towing another Club Car vehicle or a trailer can have adverse effects on vehicle handling. Be especially cautious when towing other equipment with a Club Car vehicle. **See Vehicle Load Capacities on page 33 for vehicle capacity information.**

Parking the vehicle with a trailer on a hill should be avoided. If you must park on a hill, apply the brakes and have someone chock the trailer tires. The brakes should be released to allow the chocks to absorb the trailer load. After the trailer tires have been chocked, engage the park brake.

TRANSPORTING ON A TRAILER

⚠ WARNING

- **Gasoline vehicles only: Turn fuel shut-off valve to the closed (OFF) position (Figure 21, Page 36).**
- **Do not allow riders in the trailer being towed.**
- **Avoid sudden starts, sudden stops, and tight turns when towing.**
- **Avoid stopping on a hill when towing. If you must stop on a hill, avoid sudden starts, or rolling backwards and stopping suddenly. Failure to heed this warning could cause the vehicle to overturn, possibly resulting in severe personal injury.**
- **Reduce normal driving speed when transporting a vehicle on a trailer.**
- **For use on public roads, the trailer must meet all federal, state, and local requirements such as taillights, brake lights, etc.**
- **Never tow a Club Car vehicle behind a passenger vehicle or truck on a public road unless it is on an approved trailer.**
- **The vehicle to be transported should be tied securely to the trailer, with the Forward/Reverse handle or switch in the NEUTRAL position, the key switch in the OFF position, and the park brake firmly engaged to prevent movement.**
- **Because of the added length of the trailer, use caution when making turns.**
- **Do not transport the vehicle on a trailer with a load in the vehicle cargo bed.**
- **Remove the vehicle windshield and secure seats before transporting on a trailer.**

If the vehicle or vehicles must be transported over long distances or on public highways, they should be transported on an approved trailer that has an approved load rating in excess of the weight of the vehicles being transported.

STORAGE

See General Warnings on page 12.

⚠ DANGER

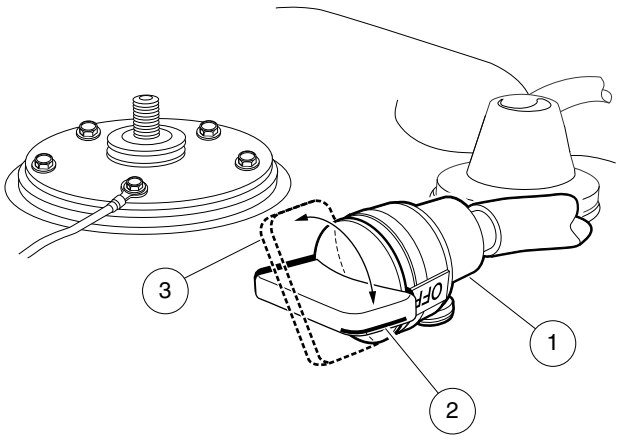
- **Do not attempt to drain fuel when the engine is hot or while it is running.**
- **Clean up any spilled fuel before operating the vehicle.**
- **Store fuel in an approved fuel container only. Store in a well-ventilated area away from sparks, open flames, heaters, or heat sources.**
- **Keep fuel out of the reach of children.**
- **Do not siphon fuel from the vehicle.**

⚠ WARNING

- **Turn the key switch to the OFF position, remove the key, and leave the Forward/Reverse handle in the NEUTRAL position during storage. This is to prevent unintentionally starting the vehicle or a fire hazard.**
- **Gasoline vehicles only: Turn fuel shut-off valve to the closed (OFF) position (Figure 21).**
- **Do not attempt to charge frozen batteries or batteries with bulged cases. Discard the battery. Frozen batteries can explode.**

⚠ CAUTION

- **Batteries in a low state of charge will freeze at low temperatures.**



1. Fuel Shut-off Valve
2. Closed (OFF)
3. Open (ON)

NOTE: When selecting valve position, ensure that it is **fully** opened or **fully** closed.

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Figure 21 Fuel Shut-off Valve

PREPARING THE VEHICLE FOR EXTENDED STORAGE

1. Unload the vehicle so that the tires are supporting only the weight of the vehicle.
2. Store the vehicle in a cool, dry place. This will minimize battery self-discharge. If the battery appears to be weak, have it charged by a trained technician. Use an automotive-type 12-volt battery charger rated at 10 amps or less. Check electrolyte level after charging and add distilled water if necessary. If the battery is dead, see Using A Booster Battery (Jump Starting) on page 57.
3. Make sure the key switch is in the OFF position and the Forward/Reverse handle is in the NEUTRAL position. Chock the wheels.
4. **Gasoline vehicles:**

   Prepare the fuel tank.

   4.1. Fill the tank with fresh fuel.

4.2. Following the manufacturer's directions, add a commercially available fuel stabilizer (such as Sta-Bil®). Run the engine in a well-ventilated area to allow treated fuel to replace untreated fuel in the carburetor.

4.3. Disconnect the fuel vent line from the fuel tank vent nipple **(Figure 41, Page 53)**.

4.4. Plug the fuel tank vent nipple so that it is air tight. The manufacturer recommends using a slip-on vinyl cap.

5. Remove both spark plugs, and pour 0.5 ounce (14.2 mL) of SAE 10 weight oil through each of the two spark plug holes. Rotate the engine crankshaft by hand several times, then install both spark plugs.
6. **Diesel vehicles: If Biodiesel fuel is used, see Biodiesel Fuel (Diesel Vehicles Only) on page 54.**

   Prepare the fuel tank.

   6.1. Fill the fuel tank with fresh fuel.

   6.2. Disconnect the fuel vent line from the fuel tank vent nipple **(Figure 42, Page 53)**.

   6.3. Plug the fuel tank vent nipple so that it is air tight. The manufacturer recommends using a slip-on vinyl cap.
7. **All vehicles:**

   Change engine oil. **See Engine Oil and Filter Change on page 45.**
8. Disconnect battery and spark plug (Gas only) wires. **See Disconnecting the Battery – Gasoline/Diesel Vehicle on page 13**.
9. The battery should be clean and free of corrosion. Wash the battery top and terminals with a solution of baking soda and water (1 cup (237 mL) baking soda per 1 gallon (3.8 L) of water). Rinse the solution off the battery. Do not allow this solution to enter the battery. Let the terminals dry and then coat them with Battery Terminal Protector Spray (CC PN 1014305).
10. Adjust the tires to the recommended tire pressure. **See Vehicle Specifications on page 61.**
11. Perform semiannual periodic lubrication. **See Periodic Service Schedule on page 39.**
12. Thoroughly clean the front body, rear body, seats, cargo bed, engine compartment, and underside of vehicle.
13. Do not engage the park brake. Chock the wheels to prevent the vehicle from rolling.

RETURNING THE STORED VEHICLE TO SERVICE

1. Make sure the key switch is in the OFF position and the Forward/Reverse handle is in the NEUTRAL position. Chock the wheels.
2. Restore the fuel system to operation **(Figure 41 or Figure 42)**.

   2.1. Remove the plug from the fuel tank vent.

   2.2. Connect the vent tube to the fuel tank vent.
3. Connect battery and spark plug (Gas only) wires. **See Connecting the Battery – Gasoline/Diesel Vehicle on page 14**.
4. **Gasoline vehicles only:** Completely open the fuel shut-off valve **(Figure 21, Page 36)**. Ensure the valve is fully open. A partially closed fuel shut-off valve combined with the use of the choke can result in a fouled spark plug and engine failure.
5. Place the Forward/Reverse handle in the NEUTRAL position. Crank the engine until fuel is pumped into the carburetor (gasoline vehicles) and the fuel lines (all vehicles) and the engine starts. Turn the engine off. **See following NOTE.**

NOTE: *Due to the oil added to the gasoline engine in preparation for storage, the engine may smoke excessively for a short time when it is run for the first time after storage.*

6. Perform the Pre-Operation and Daily Safety Checklist on page 27 and the Performance Inspection on page 28.

MAINTENANCE

See General Warnings on page 12.

To ensure trouble-free vehicle performance, follow an established preventive maintenance program. Regular and consistent maintenance can prevent vehicle downtime and expensive repairs. Use the Pre-Operation and Daily Safety Checklist on page 27, the Performance Inspection on page 28, and the following Periodic Service Schedule and Periodic Lubrication Schedule to keep the vehicle in proper working condition.

Any vehicle not functioning correctly should not be used until it is properly repaired. This will prevent further damage to the vehicle and help prevent injury to occupants resulting from unsafe conditions.

Contact your local Club Car dealer/distributor for repairs and semiannual and annual periodic service.

⚠ WARNING

- **Only trained technicians should service or repair the vehicle. Anyone doing even simple repairs or service should have knowledge and experience in electrical and mechanical repair. The appropriate instructions must be used when performing maintenance, service, or accessory installation.**
- **If any problems are found during scheduled inspection or service, do not operate vehicle until repairs are made. Failure to make necessary repairs could result in fire, property damage, severe personal injury, or death.**
- **Do not wear loose clothing or jewelry such as rings, watches, chains, etc., when servicing the vehicle.**
- **Turn key switch to the OFF position, remove the key, place the Forward/Reverse handle in the NEUTRAL position and chock the wheels prior to servicing.**
- **Moving parts: Do not attempt to service vehicle while engine is running.**
- **Hot! Do not attempt to service hot engine or exhaust system. Failure to heed this warning could result in severe burns.**
- **For vehicles with cargo beds, remove all cargo (including accessories) before raising the bed or servicing the vehicle. If the vehicle is equipped with a prop rod, ensure that it is securely engaged while bed is raised. Do not close bed until all persons are clear of cargo bed area. Keep hands clear of all crush areas. Do not drop cargo bed; lower gently and keep entire body clear. Failure to heed this warning could result in severe personal injury or death.**
- **Do not work on vehicle powertrain or under cargo bed when it is loaded.**
- **Gasoline vehicles only: Turn fuel shut-off valve to the closed (OFF) position (Figure 21).**
- **To avoid unintentionally starting the vehicle disconnect battery and spark plug (Gas only) wires. See Disconnecting the Battery – Gasoline/Diesel Vehicle on page 13.**
- **If wires are removed or replaced make sure wiring and wire harness are properly routed and secured. Failure to properly route and secure wiring could result in vehicle malfunction, property damage, personal injury, or death.**
- **Lift only one end of the vehicle at a time. Use a suitable lifting device (chain hoist or hydraulic floor jack) with 1000 lb (454 kg) minimum lifting capacity. Do not use lifting device to hold vehicle in raised position. Use approved jack stands of proper weight capacity to support the vehicle and chock the wheels that remain on the floor.**
- **When servicing the vehicle with part of the vehicle on jack stands, do not operate the engine with the Forward/Reverse handle in either the FORWARD or REVERSE position. The all-wheel drive system will engage any wheel(s), front or rear, with traction. See Figure 3 on page 14.**

PERIODIC SERVICE SCHEDULE

See General Warnings on page 12.

⚠ WARNING

- **Service, repairs, and adjustments must be made per instructions in the appropriate maintenance and service manual.**
- **If any problems are found during scheduled inspection or service, do not operate vehicle until repairs are made. Failure to make necessary repairs could result in fire, property damage, severe personal injury, or death.**

NOTE: *If the vehicle is constantly subjected to heavy use or severe operating conditions, these preventive maintenance procedures should be performed more often than recommended in the Periodic Service and Lubrication Schedules.*

Both the Periodic Service Schedule and the Periodic Lubrication Schedule must be followed to keep vehicle in optimum operating condition.

PERIODIC SERVICE SCHEDULE		
REGULAR INTERVAL	**SERVICE**	
Daily service by owner	Pre-Operation and Daily Safety Checklist	**See Pre-Operation and Daily Safety Checklist on page 27.**
	Performance Inspection	**See Performance Inspection on page 28.**
Daily service by owner or trained technician	Engine	Check engine oil level; add if necessary. **See Engine Oil Level Check on page 44.**
		Diesel vehicles: Check engine coolant; add if necessary. **See Engine Coolant Level Check on page 51.**
	Fuel filters	**Diesel vehicles:** Drain water from fuel filter. **See Draining Water from Fuel Filter on page 54.**
	Brakes	Check brake fluid; add if necessary. Check brake pedal for proper operation. **See Performance Inspection on page 28.**
Monthly service by owner or trained technician	Engine	Check engine circulating air passage; visually inspect unshrouded area around engine exhaust for grass and debris and clean if necessary. **Diesel vehicles:** Check for grass and debris around the radiator.
	Tires	Check air pressure and adjust if necessary. **See Vehicle Specifications on page 61.**
	Transmission and differentials	Check lubricant levels. Add if necessary. **See Lubrication Level Check for Front Differential, Transmission, and Rear Differential on page 49.**
	General vehicle	Wash engine compartment and underside of vehicle. Do not wash engine when hot.

PERIODIC SERVICE SCHEDULE		
REGULAR INTERVAL	**SERVICE**	
Semiannual service by trained technician only (or every 50 hours of operation, whichever comes first)	Battery	Clean terminals and wash dirt from casing; check electrolyte level. Add distilled water if necessary. **See page 56.**
	Front wheel alignment and toe-in	Check and adjust if necessary. **See Steering and Front Suspension Section in the appropriate maintenance and service manual.**
	Electrical wiring and connections	Check for tightness and damage.
	Brake system	Inspect master cylinder, brake lines, and hoses for damage or leakage.
		Check park brake cables for damage; replace if necessary.
		Check brake pads and discs; replace if necessary. **For brake wear-in procedure, see Hydraulic Brakes in the Pre-Operation and Daily Safety Checklist on page 27. See also Brake System Section in the appropriate maintenance and service manual.**
Annual service by trained technician only (or every 100 hours of operation, whichever comes first)	Engine	Check for leaks around gaskets, fill plugs, etc.
		Kawasaki gasoline engines: Adjust valve clearance. **See Kawasaki FH680D Service Manual.**
		Gasoline vehicles: Inspect, clean, and gap spark plug; replace if necessary. See authorized dealer or trained technician for service.
		Diesel vehicles: Check the v-belt for proper tension or damage. Adjust or replace if necessary.
		Diesel vehicles: Change engine coolant. **See Radiator and Cooling System Section in the maintenance and service manual.**
	Radiator	**Diesel vehicles:** Check clamps for tightness; check hoses for cracks. Replace if necessary.
	Engine air intake system	Replace air filter element. **See Air Intake System on page 52.**
		Check clamps for tightness; check hose for cracks.
	General vehicle	Check for loose hardware and tighten if necessary.
	Fuel filters	Replace. Dispose of used filters properly.
	Safety decals	Check safety decals. Replace if damaged or illegible.
Every 200 hours of operation by trained technician only.	Drive Belt	Inspect drive belt for cracks/damage. Replace if necessary.

PERIODIC LUBRICATION SCHEDULE

PERIODIC LUBRICATION SCHEDULE			
REGULAR INTERVAL	**SERVICE**	**LUBRICATION POINTS**	**RECOMMENDED LUBRICANT**
Gasoline vehicle: Kawasaki engine- First change 10 hours Diesel vehicle: First change 50 hours Additional change for all engines every 100 hours of operation or annually, whichever comes first.	Change engine oil and oil filter	1	**Gasoline (Kawasaki engine) vehicles:** 1 qt and 19 fl-oz (1.5 L) with filter **Diesel vehicles:** 3 qt (2.8 L) with filter **See Oil Viscosity on page 49.**
Monthly by owner or trained technician	Driveshaft	2	Chassis Lube (EP NLGI Grade 2)
First change 50 hours – additional change every 100 hours of operation or annually, whichever comes first	Change front differential lubricant	3	5 fl-oz (150 mL) Mobil 424, Exxon Hydraul 560, or Esso Hydraul 56 lubricant (CC PN AM1216101)
First change 50 hours – additional change every 300 hours of operation or annually, whichever comes first	Change rear differential lubricant	4	20 fl-oz (600 mL) Mobil 424, Exxon Hydraul 560, or Esso Hydraul 56 lubricant (CC PN AM1216101)
	Change transmission lubricant	5	20 fl-oz (600 mL) Mobil 424, Exxon Hydraul 560, or Esso Hydraul 56 lubricant (CC PN AM1216101)

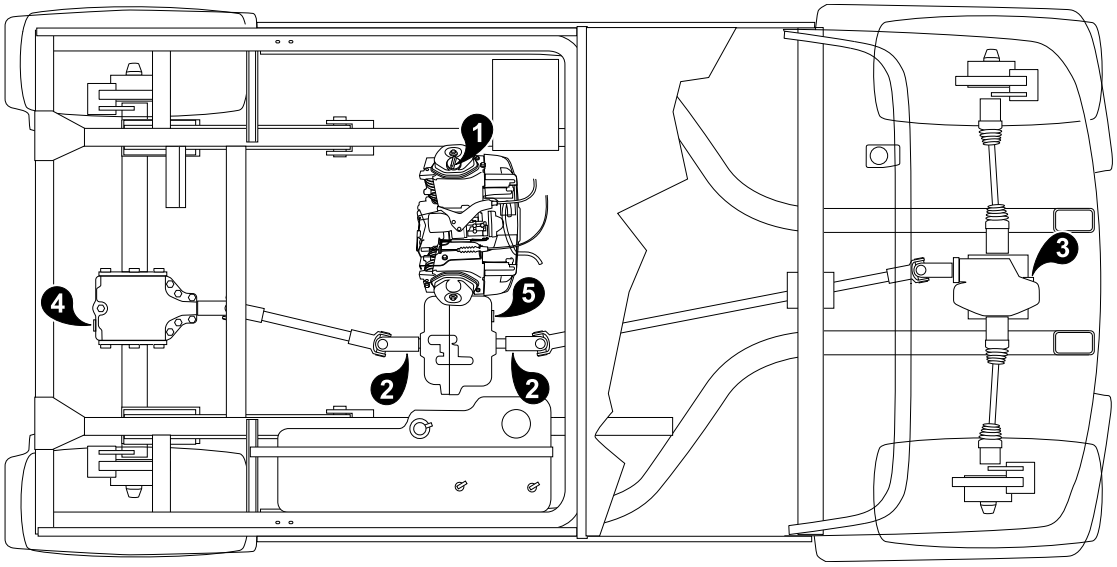

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Figure 22 Lubrication Points — Gasoline Vehicles

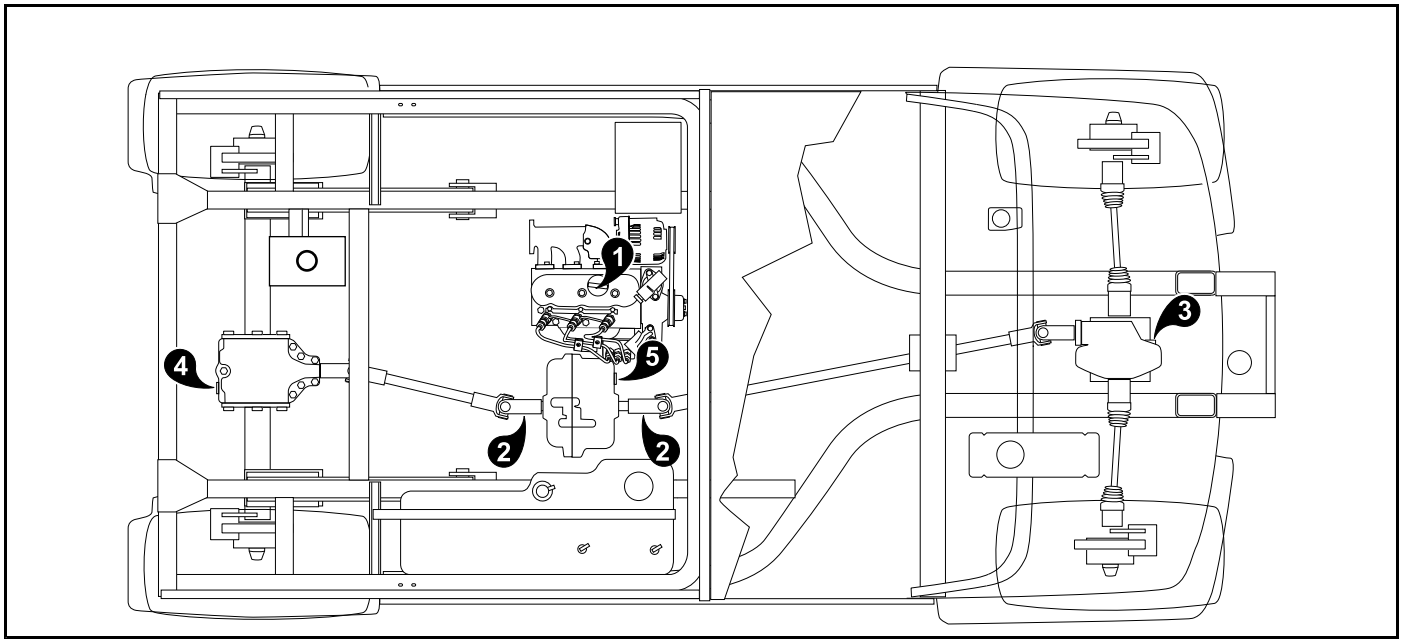

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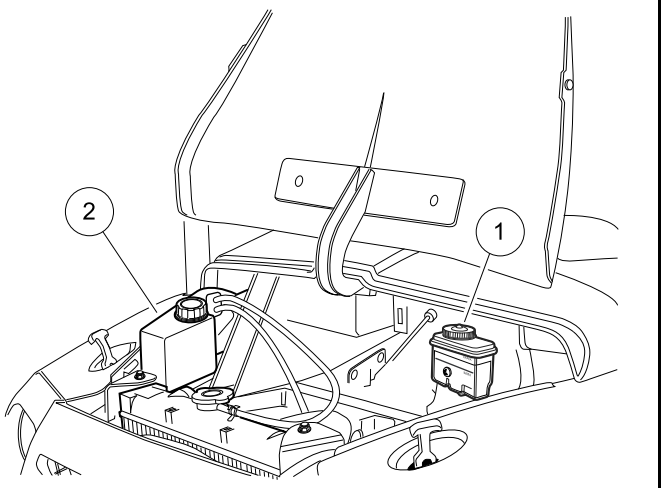
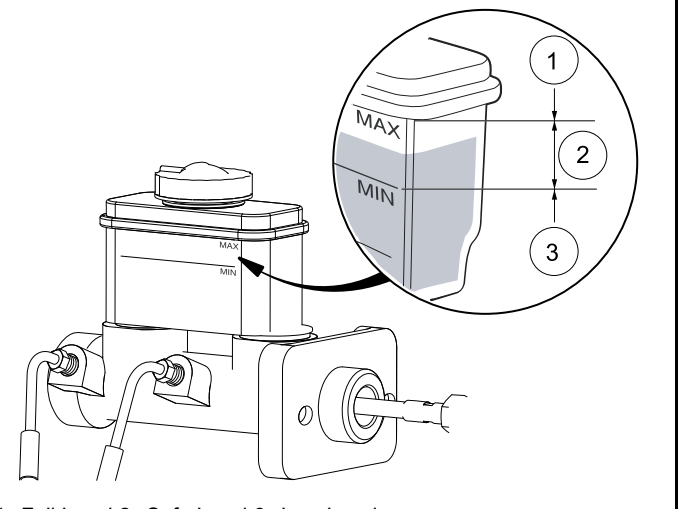
Figure 23 Lubrication Points — Diesel Vehicles

BRAKE FLUID RESERVOIR



201
Figure 24 Brake Fluid and Coolant Access (diesel vehicle shown)



1. Full Level 2. Safe Level 3. Low Level

2693
Figure 25 Brake Fluid Reservoir

The brake fluid reservoir (1) is located under the hood **(Figure 24)**. Raise the hood to check the brake fluid level. During the brake fluid level inspection, also inspect the following:

- The presence of brake fluid on the exterior surface of the master cylinder indicates a leak.
- The brake fluid reservoir diaphragm (located in the cap) should not have holes or other damage.

BRAKE FLUID

Brake fluid level should be within 1/4-inch (6 mm) from the top of the reservoir **(Figure 25)**. Also, brake fluid should be clean with no residue in the bottom of the reservoir or other evidence of contamination.

⚠ CAUTION

- **Use only DOT 5 (silicone) brake fluid. Use of any other type brake fluid is not recommended.**

ENGINE OIL

Even though the low oil warning light on the instrument panel should illuminate if the oil level becomes low, the engine oil level should be checked daily. The vehicle should be on a level surface when the oil is checked. Do not overfill the engine with oil.

OIL PRESSURE – GASOLINE ENGINE

Kawasaki engine: The Kawasaki gasoline engine has an oil filter that is mounted on a bracket between and in front of the engine and transmission. Inlet and outlet oil-carrying hoses enable oil circulation to and from the engine. **See following NOTE.**

NOTE: *The normal oil pressure value stated in the Kawasaki engine manual is 35 to 45 psig (241.3 to 310.2 kPa) at idle; however, the remote filter design causes oil pressure to be 18 psig (124.1 kPa), which is normal for this type of oil circulation design.*

ENGINE OIL LEVEL CHECK

1. Remove the oil level dipstick from the oil filler tube and wipe oil from the dipstick **(Figure 26 and Figure 27)**. **See following CAUTION.**

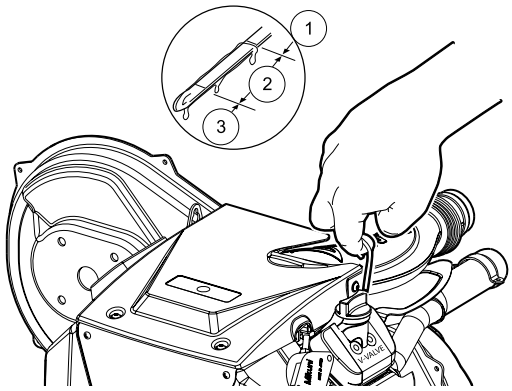
⚠ CAUTION

- **Do not remove dipstick while engine is running.**

2. Check oil level by fully inserting the dipstick into the tube and immediately removing it.
3. If the oil level is at or below the low level mark on the dipstick gauge, add oil to the engine until the level is between low and full levels (safe level). **See following CAUTION.**

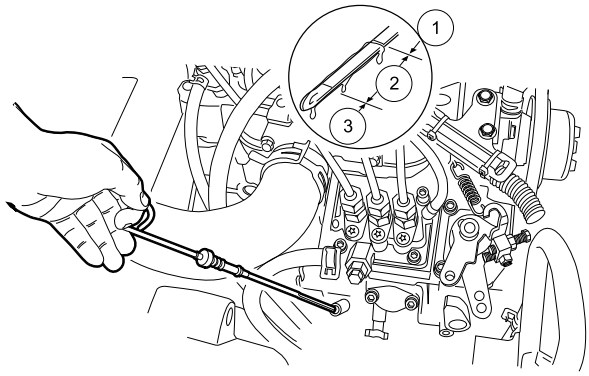
CAUTION

- **Do not exceed recommended oil capacity. Doing so will decrease engine performance or result in damage to the engine.**



1. Full Level 2. Safe Level 3. Low Level

205
Figure 26 Engine Oil Level Check – Kawasaki Gasoline Vehicles



1. Full Level 2. Safe Level 3. Low Level

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Figure 27 Engine Oil Level Check – Diesel Vehicles

ENGINE OIL AND FILTER CHANGE

The engine oil and oil filter should be changed at the following intervals:

- Kawasaki gasoline engine: after the first 10 hours of operation.
- Kubota diesel engine: after the first 50 hours of operation.

After that, the oil should be changed every 100 hours of operation or annually, whichever comes first.

Engine Oil Draining

1. Turn the key switch to the OFF position and remove the key. Place the Forward/Reverse handle in the NEUTRAL position. Chock the front wheels.
2. Disconnect battery and spark plug (Gas only) wires. **See Disconnecting the Battery – Gasoline/Diesel Vehicle on page 13**.
3. Remove the oil filler cap to allow the oil to drain properly.
4. Position a pan designed for oil changes under the drain plug **(Figure 28 or Figure 29)**.
5. From the underside of the vehicle, use a socket or wrench to remove the drain plug (1). Turn the plug counterclockwise and drain the engine oil into the pan. **See following WARNING.**

⚠ WARNING

- **Do not attempt to change engine oil when the engine is hot or even warm. Hot engine oil can cause skin burns.**
- **Wear safety glasses or approved eye protection when servicing the vehicle. Wear rubber gloves when handling oil drain plug, oil filter, and oil drain pan.**

6. Clean the oil drain plug threads with solvent to remove oil and oil residue. Make sure that the compression washer or sealing o-ring remains on the drain plug. Inspect the compression washer or the sealing o-ring and replace if necessary.

7. Use a socket or wrench to replace the oil drain plug (1) **(Figure 28 or Figure 29)**. Turn the plug clockwise and tighten to 61 in·lb (6.9 N·m) for Kawasaki gas vehicles with plastic drain plugs, 14.5 ft·lb (20 N·m) for Kawasaki gas vehicles with metal drain plugs, or 31 ft·lb (42 N·m) for diesel vehicles.

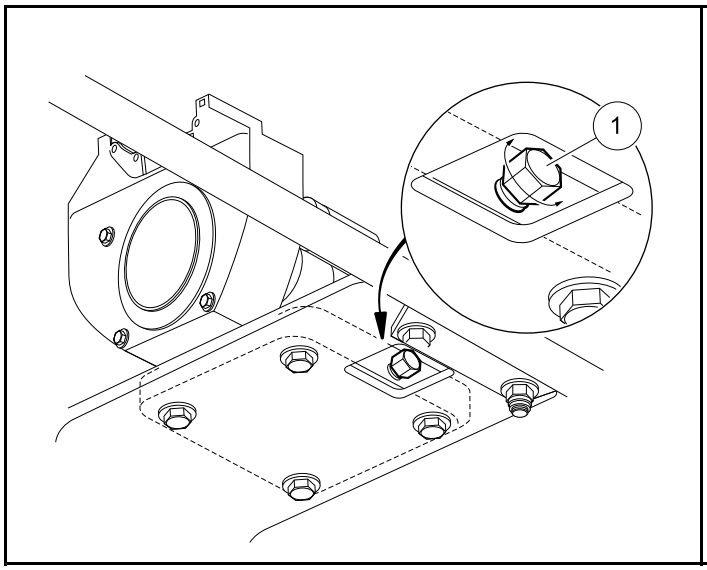

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Figure 28 Engine Oil Drain Plug and Pan – Gasoline Vehicles

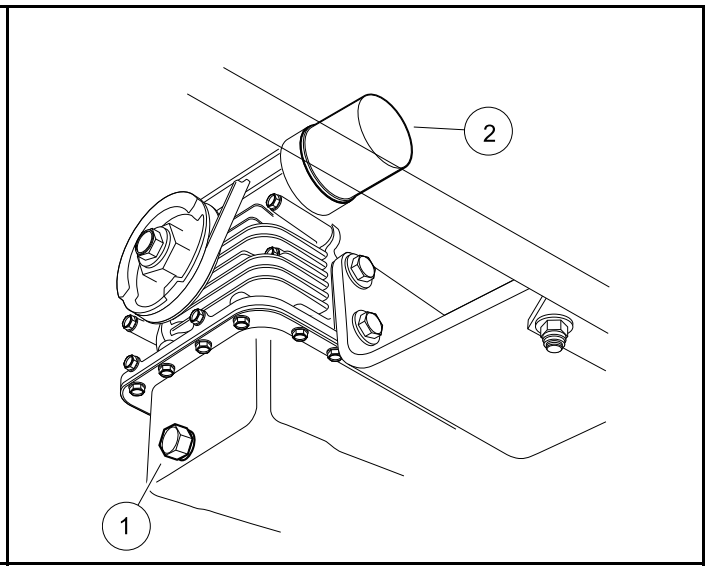

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Figure 29 Engine Oil Drain Plug and Oil Filter – Diesel Vehicles

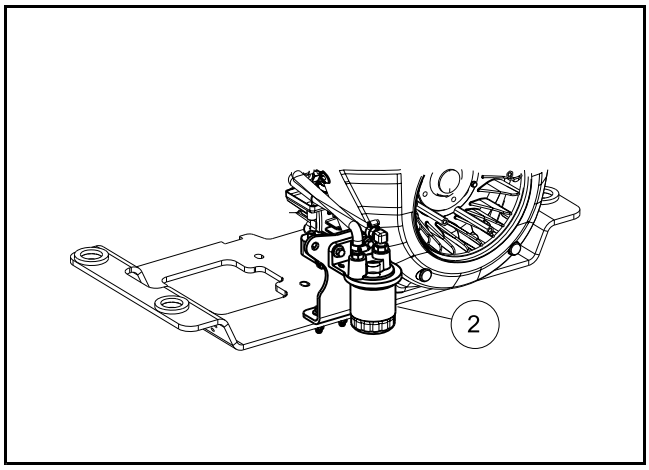

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Figure 30 Replace Engine Oil Filter – Kawasaki Gasoline Vehicles

Engine Oil Filter Change

1. Drain the engine oil. **See Engine Oil Draining on page 45.**
2. Place the oil drain pan under the engine oil filter (2) **(Figure 29 or Figure 30)**.
3. Remove the engine oil filter. Turn it counterclockwise and drain the residual oil in the filter port and filter into the oil drain pan. **See following NOTE.**

NOTE: *An oil drip guard can be used to prevent excess oil from dripping onto the engine base plate* ***(Figure 31)****. Use an empty quart (one liter) container and cut the bottom off at an angle, then slide the open area of the container up and under the oil filter before removal. Position the port of the plastic container so oil will be directed into the oil pan. A drip guard can be made by folding a piece of cardboard, thin metal, or plastic under the oil filter, forming a channel to direct the filter port oil into the drain pan.*

Dispose of used oil according to the environmental laws and regulations for your area.

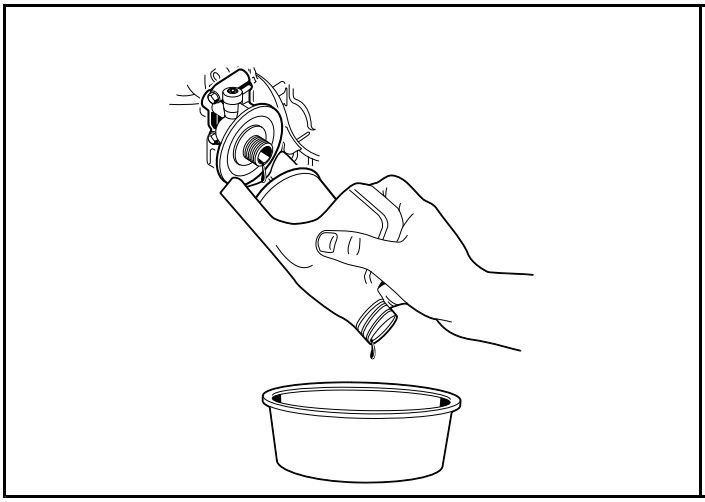

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Figure 31 Remove Engine Oil Filter

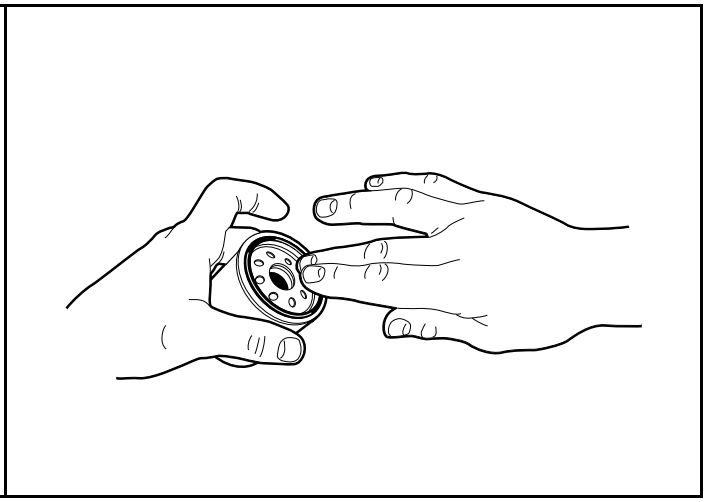

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Figure 32 Coat Rubber Seal

4. Use a clean rag to wipe the oil filter mounting bracket surface clean where the oil filter gasket seats.
5. Coat filter gasket with clean engine oil **(Figure 32, Page 47)**.
6. Install the new oil filter (gas: CC PN 103887901) (diesel: CC PN 102703301). **See following NOTE.**

NOTE: *Only use oil filters designed for this engine.*

7. Hand tighten 2/3 to 3/4 turn after the filter gasket contacts the mounting surface.

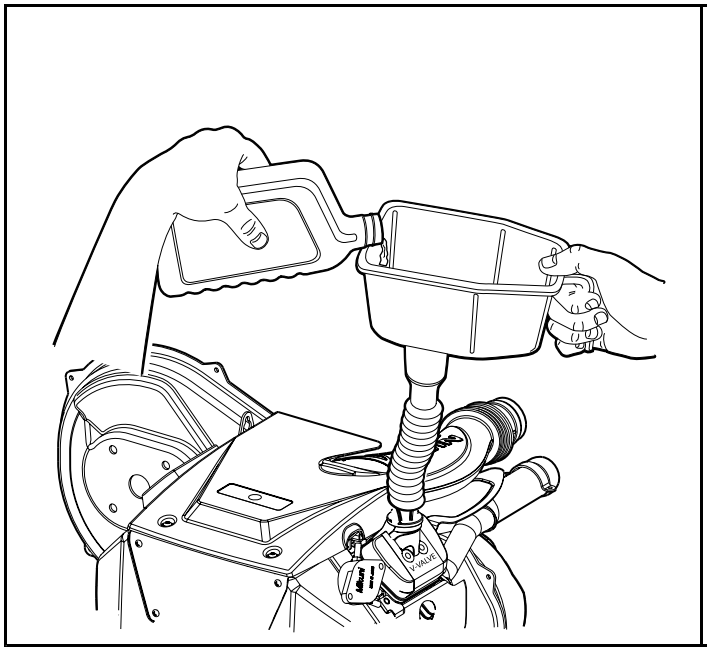

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Figure 33 Add Engine Oil – Gasoline Vehicles

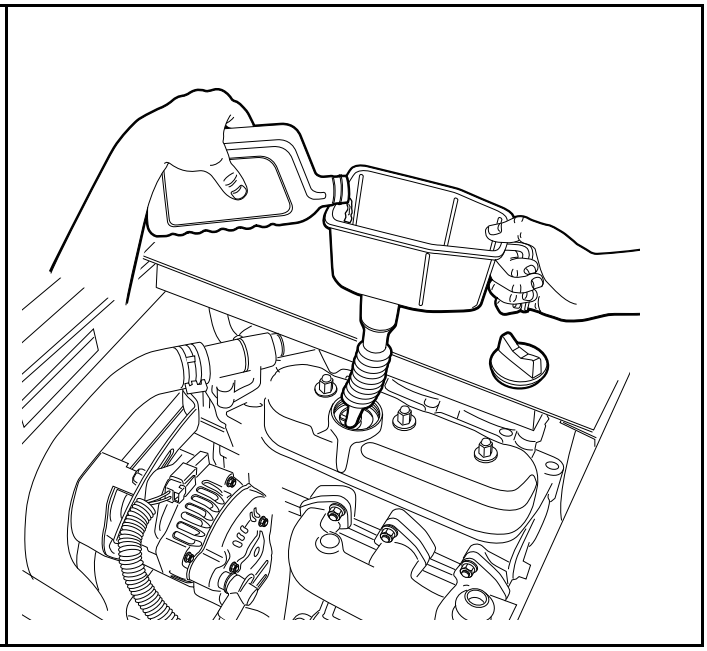

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Figure 34 Add Engine Oil – Diesel Vehicles

Engine Oil Filling

1. Add engine oil **(Figure 33 or Figure 34)**. With filter change, the engine requires the following amounts:
   – Kawasaki gasoline engines: 1 qt and 19 fl-oz (1.5 L) of oil per change.
   – Kubota diesel engines: 3 qt (2.8 L) of oil per change.
2. Refer to oil viscosity guidelines for selection of oil grade **(Figure 35 or Figure 36)**. **See following CAUTION.**

CAUTION

- **Do not exceed recommended oil capacity. Doing so will decrease engine performance or result in damage to the engine.**

3. Install the oil filler cap.
4. Connect battery and spark plug (Gas only) wires. **See Connecting the Battery – Gasoline/Diesel Vehicle on page 14.**
5. With the Forward/Reverse handle in the NEUTRAL position, start and run the engine for three minutes and check for leaks. Observe both the drain plug and the oil filter from under the vehicle and watch for oil leaks. If the filter leaks, tighten an additional 1/4 turn and retest. If the oil drain plug leaks, re-torque and retest.

NOTE: *Wait a few minutes after turning off the engine before removing the dipstick.*

6. Remove the dipstick and check the engine oil as a final step. Replace the dipstick.

OIL VISCOSITY

Choose the viscosity according to the temperature as shown in the appropriate oil viscosity chart **(Figure 35 or Figure 36)**. **See following NOTE.**

NOTE: *Use engine oil with API classification SJ for gasoline engines and CF for diesel engines..*

Gasoline Vehicles Only: Below 40 °F (4 °C), the use of SAE 30 may result in hard starting.

Gasoline Vehicles Only: Above 80 °F (27 °C), the use of 10W-30 may cause increased oil consumption. Check oil more frequently.

Using multi-grade oils (5W-20, 10W-30, and 10W-40) may increase oil consumption. If multi-grade oil is used, check the oil level more frequently.

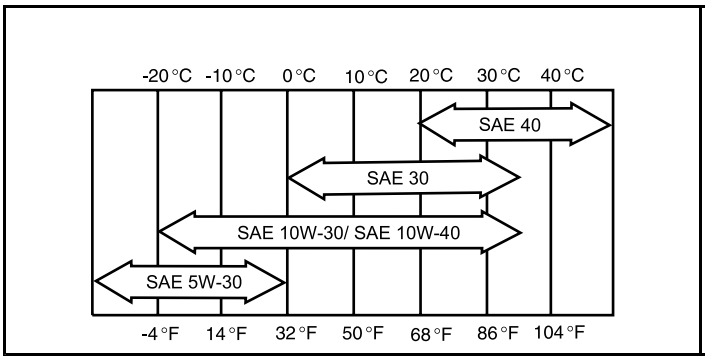

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Figure 35 Oil Viscosity Chart – Gasoline Vehicles

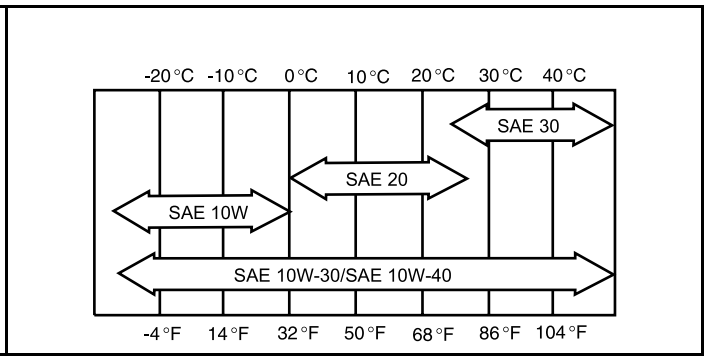

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Figure 36 Oil Viscosity Chart – Diesel Vehicles

GEARCASE LUBRICATION

NOTE: *Dispose of used oil according to the environmental laws and regulations for your area.*

LUBRICATION LEVEL CHECK FOR FRONT DIFFERENTIAL, TRANSMISSION, AND REAR DIFFERENTIAL

Each gearcase component is equipped with two oil port plugs (1 and 2) **(Figure 37, Figure 38, and Figure 39)**. When the vehicle is on a level surface, use the level indicator hole (upper plug) (1) in the front differential and the transmission as a lubricant level indicator. Lubricant level should be even with the bottom of level indicator hole (1).

NOTE: *Do not use the fill hole in the rear differential as a lubricant level indicator.*

LUBRICATION CHANGE FOR FRONT DIFFERENTIAL, TRANSMISSION, AND REAR DIFFERENTIAL

Use the lower plug (2) for drainage **(Figure 37, Figure 38, or Figure 39)**. Remove both plugs to allow the lubricant to drain faster. **See preceding NOTE.**

Metal particles may be discovered in the fluid or on the magnetic drain plug when changing the differential or transmission fluid. These particles are normal and expected for the first few fluid changes. This is a result of the gears being “net forged”, meaning the gears are forged to a shape very close to the final gear size but the teeth are not finish machined prior to assembly. The “finish machining” occurs when the gears make contact under load during vehicle

operation. The magnetic drain plug is included in the design to collect the metal particles generated from the gear break in process. This is an established process and is not detrimental to gear service life.

Front differential:

Clean and install the drain plug (2) and washer before filling the front differential with new lubricant **(Figure 37)**. Tighten the drain plug to 108 in·lb (12 N·m). Use a funnel when filling the front differential through the lubricant level indicator hole (1). **See Periodic Lubrication Schedule on page 41.** Tighten the level indicator plug to 120 in·lb (14 N·m).

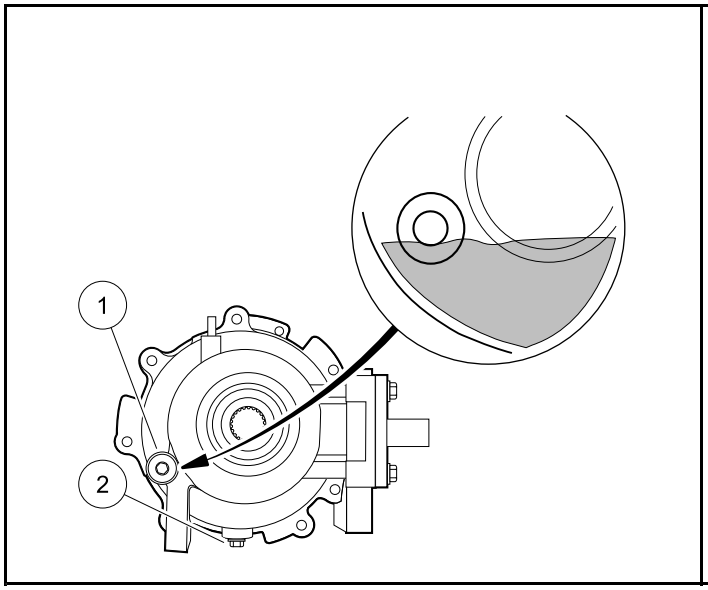

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Figure 37 Front Differential Lubrication Level

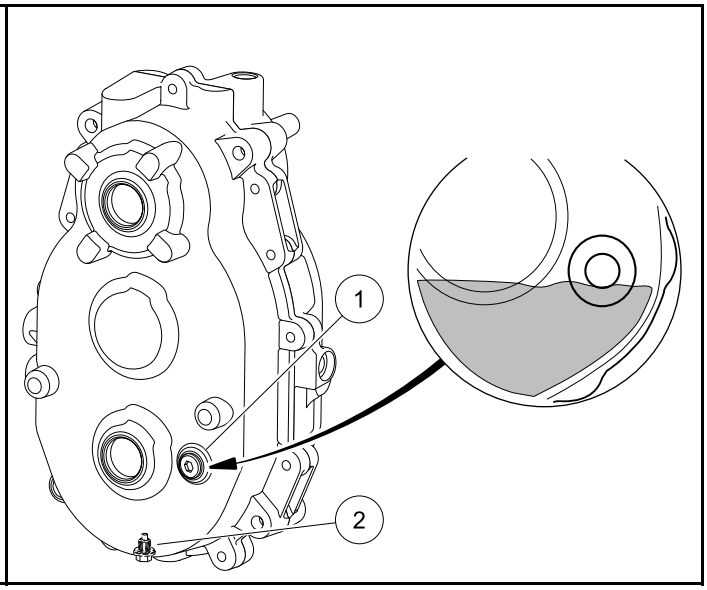

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Figure 38 Transmission Lubrication Level

Transmission:

Clean and install the drain plug (2) before filling the transmission with new lubricant **(Figure 38)**. Tighten the drain plug to 96 in·lb (11 N·m). Remove the fill plug from the top of the transmission case and use a funnel to fill the transmission with lubricant. **See Periodic Lubrication Schedule on page 41.** Apply Loctite 567 to the threads of the fill plug and tighten to 21 ft·lb (28 N·m).

Check the level of lubricant at the level indicator plug (1). Apply Loctite 567 to the threads of the level indicator plug and tighten to 21 ft·lb (28 N·m).

Rear differential:

Clean and install the drain plug (2) and washer before filling the rear differential with new lubricant **(Figure 39)**. The fill hole should not be used as a level indicator hole. Fill by volume. Tighten the drain plug to 96 in·lb (10.8 N·m). Use a funnel to fill the differential through the fill hole (1). **See Periodic Lubrication Schedule on page 41.** Apply Loctite 567 to the threads of the fill plug and tighten to 21 ft·lb (28 N·m).

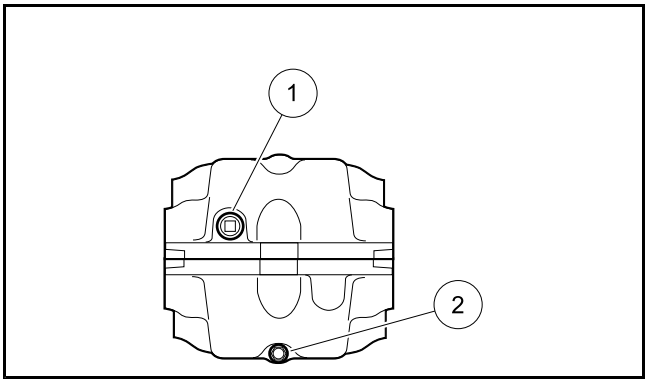

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Figure 39 Rear Differential Fill and Drain Plugs

ENGINE COOLANT – DIESEL VEHICLES

ENGINE COOLANT LEVEL CHECK

The coolant reserve tank (2) is located under the hood on the passenger side **(Figure 24)**. Raise the hood to check the coolant level before every operation.

1. Check the coolant level of the reserve tank (2). If the coolant is at or below the LOW mark, add pre-mixed coolant until the level reaches the FULL mark. If a leak is detected, have it checked by a trained technician. **See following WARNING.**

⚠ WARNING

- **Hot! Coolant reserve tank is pressurized. Do not remove cap when engine is hot.**

AIR INTAKE SYSTEM

CAUTION

- **Do not drill into the driver-side frame because it is part of the air intake system. Failure to heed this caution could damage the engine by allowing excessive contamination to enter the air intake system.**

AIR FILTER REPLACEMENT

The air filter should be inspected periodically and replaced when necessary. Filter changes should not exceed the recommended interval. **See Periodic Service Schedule on page 39.** More frequent service may be required in extremely dirty operating environments. In the event of a loss of power, sluggish acceleration, or a roughly running engine, service the air filter immediately.

Air Filter Removal

1. Raise the cargo bed, and locate the air filter canister.
2. Release both canister tab locks **(Figure 40)**.
3. Pull the canister cap away from the canister.
4. Remove the air filter cartridge (1). **See following NOTE.**

NOTE: *The air filter cartridge is specifically designed for this engine. It only fits into the canister one way. Use only the Club Car part (CC PN 102498601) designed for this engine.*

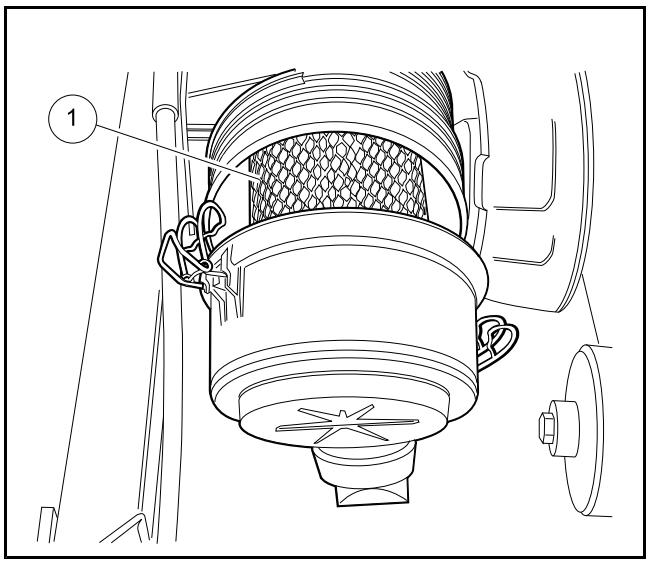

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Figure 40 Air Filter Cartridge

Air Filter Installation

1. Push the new air filter cartridge onto the nozzle inside the canister.
2. Place the canister cap, marked TOP, on the top center of the canister.
3. Secure the canister cap with both tab locks.

FUELING INSTRUCTIONS

See General Warnings on page 12.

⚠ DANGER

- **Turn the key switch to the OFF position before fueling.**
- **Do not pour fuel into the fuel tank when the engine is hot or while it is running.**
- **To avoid electric arc caused by static electricity, the fuel storage/pumping device must be grounded. If the pump is not grounded, the vehicle must be grounded to the pump before and during the fueling operation.**
- **If the vehicle has an all-weather enclosure installed, be sure the fuel tank is properly vented as shown Figure 41, Page 53.**
- **To avoid the possibility of fire, clean up any spilled fuel before operating the vehicle.**

1. Remove the fuel cap and fill the tank with fuel. Gasoline vehicles have a black fuel cap; diesel vehicles have a green fuel cap. **See preceding DANGER and following CAUTION.**

CAUTION

- **Gasoline vehicles: Use unleaded gasoline only.**
- **Whenever possible, avoid using oxygenated and blended fuels.**
- **Do not use any fuel with an alcohol content that exceeds 10% by volume (such as E15 and E85). Ethanol is an alcohol that readily absorbs moisture causing corrosion of fuel system components. It also damages neoprene and other plastic and rubber components. Use of these fuels in this vehicle will void the warranty.**
- **Diesel vehicles: Use only diesel fuel grade no. 2 with a cetane rating of 45 or higher.**

2. Replace the fuel cap. Ensure that the cap is tightened securely (tighten until it clicks).
3. Clean any spilled fuel from the cap or around the fuel cap area.

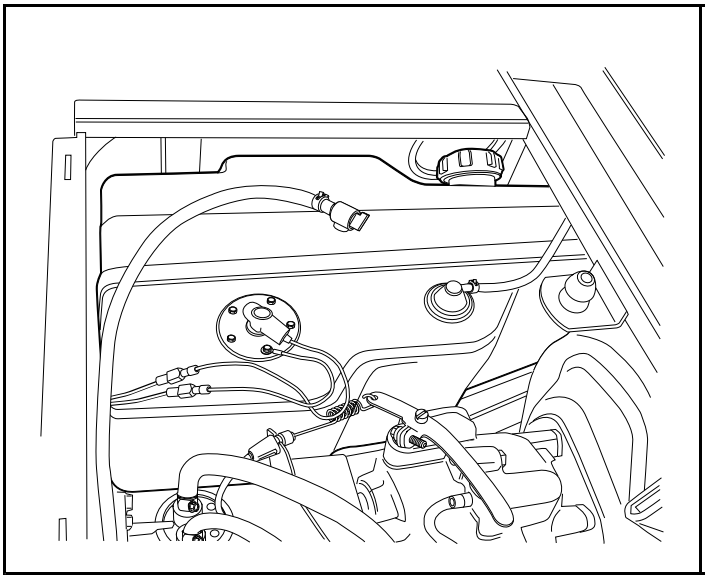

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Figure 41 Fuel Tank – Gasoline Vehicles

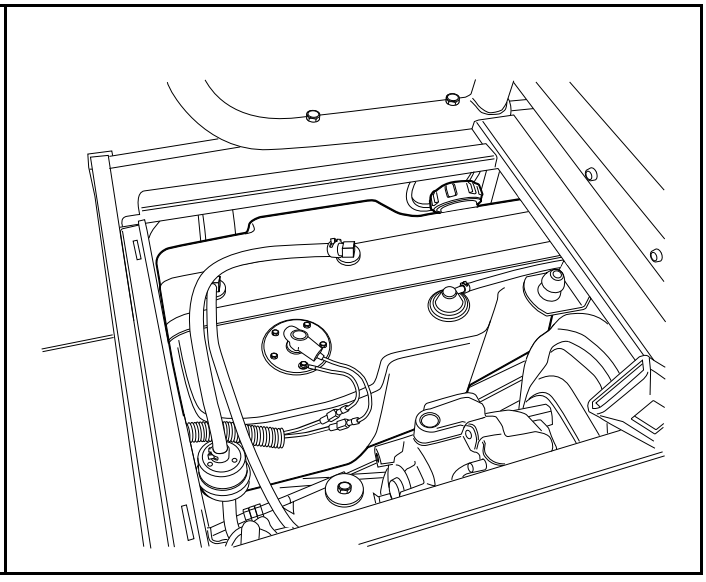

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Figure 42 Fuel Tank – Diesel Vehicles

BIODIESEL FUEL (DIESEL VEHICLES ONLY)

Biodiesel has unique qualities that should be considered before it is used in the Kubota D722 diesel engine. During cold weather, plugged fuel lines, plugged fuel systems, hard starting, and other unknown failures can result from use of this fuel.

Biodiesel is an excellent medium for microbial growth and contamination. Microbial contamination can cause corrosion of the fuel system and prematurely plugged fuel filters. **See following NOTE.**

NOTE: *Use of biodiesel may result in premature failure of fuel system components. Kubota has documented problems such as plugged fuel filters and deteriorated fuel lines during testing of biodiesel.*

Biodiesel can damage painted surfaces. Be sure to remove all spilled fuel immediately to help prevent damage to painted surfaces.

If biodiesel will be used in the Kubota D722 engine, be sure that it meets the following requirements:

- The fuel blend should contain no more than 5% biodiesel by volume.
- The petroleum portion of the fuel blend must meet ASTM standard D975 and the biodiesel portion of the fuel blend must meet ASTM standard D6751.
- For Europe, the fuel blend must meet the EN590 standard. **See following CAUTION.**

CAUTION

- **Never use any fuel that does not meet specifications or fuel in which the contents cannot be identified. Using blends higher than 5% biodiesel content can affect engine life and cause deterioration of hoses, tube lines, injectors, injector pump and seals.**
- **For more information on these fuel standards, please contact your nearest Kubota dealer.**

If biodiesel is used, be sure to apply the following guidelines:

- Ensure the fuel tank is as full as possible at all times to prevent moisture from collecting.
- Ensure that the fuel tank cap is securely tightened to prevent water from entering the fuel tank.
- Drain all water from the fuel filter daily before operating vehicle. **See *Draining Water from Fuel Filter*.**
- Check the engine oil level daily before the engine is started. **See Engine Oil Level Check on page 44.**
- Before vehicle storage, run the engine with conventional diesel fuel for at least 30 minutes to flush the biodiesel from the engine. **See Preparing the Vehicle for Extended Storage on page 36. See following NOTE.**

NOTE: *Biodiesel does not have long-term stability and must not be left in engines longer than three months. This fuel type attracts moisture and may contain higher water content than conventional diesel fuel.*

Fuel system maintenance, cleaning, and fuel line replacement are required more frequently for engines that are operated with biodiesel.

DRAINING WATER FROM FUEL FILTER

Diesel Vehicles Only

Water should be drained from the fuel filter daily. The fuel filter is mounted on a plate by the lower seat support panel **(Figure 43)**.

1. Position a pan under the fuel filter.
2. Lift the passenger-side seat.
3. Locate the valve (1) on the underside of the filter. Turn the valve clockwise until water begins to stream from the filter.

4. Drain the water until it changes color (to fuel). **See following WARNING.**

⚠ WARNING

- **Clean up spilled fuel. Keep sparks and flames away from the vehicle and service area. Failure to heed this warning could result in an explosion or fire, resulting in severe personal injury or death.**

5. Close the valve by rotating it counterclockwise until the valve is firmly sealed.
6. To resupply the filter with fuel, turn the key switch to the ON position for 10 seconds. **See following NOTE.**

NOTE: *Dispose of water according to the environmental laws and regulations for your area.*

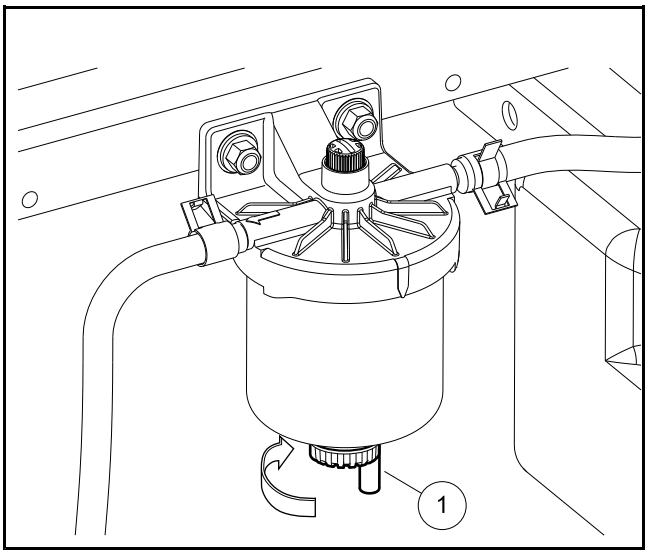

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Figure 43 Fuel Filter with Water Separator

BATTERY

See General Warnings on page 12.

⚠ DANGER

- **Battery – Explosive gases! Do not smoke. Keep sparks and flames away from the vehicle and service area. Ventilate when charging or operating vehicle in an enclosed area. Wear a full face shield and rubber gloves when working on or near batteries.**
- **Battery – Poison! Contains acid! Causes severe burns. Avoid contact with skin, eyes, or clothing. Antidotes:**
  - **External: Flush with water. Call a physician immediately.**
  - **Internal: Drink large quantities of milk or water followed with milk of magnesia or vegetable oil. Call a physician immediately.**
  - **Eyes: Flush with water for 15 minutes. Call a physician immediately.**
- **Tools, wires, and metal objects can cause sparks when shorted across a battery.**

⚠ WARNING

- **Wear safety glasses or approved eye protection when servicing the vehicle.**
- **Follow all instructions carefully when working with batteries.**
- **When jumping from a booster battery make final (negative) connection at engine frame.**
- **Do not jump start or charge a frozen or damaged battery. Unplug charger before connecting or disconnecting cables to the battery. Never lean over battery while boosting, testing, or charging.**

The battery in this vehicle is a 12-volt, low-maintenance battery that requires infrequent checks **(Figure 44)**. Electrolyte level should be checked semiannually.

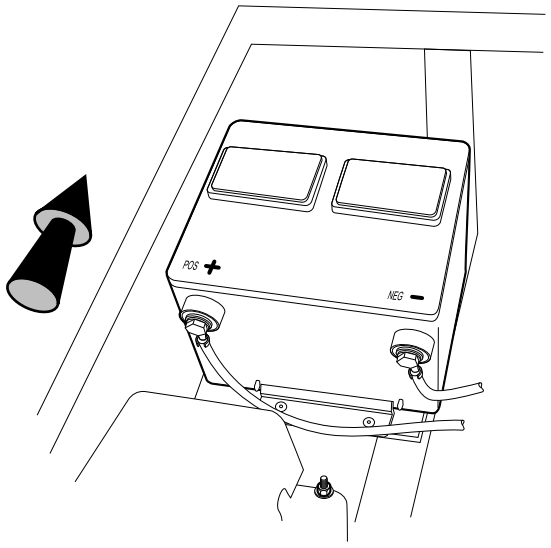

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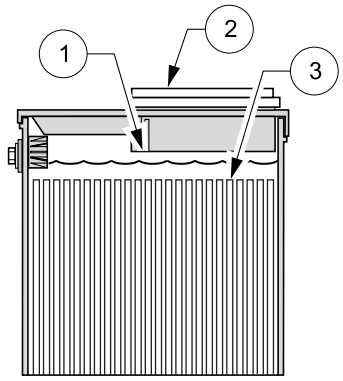
Figure 44 Battery



1. Level Indicator 2. Cap 3. Plates

Electrolyte level at least 1/2 inch (13 mm) above plates or to level indicator.

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Figure 45 Battery Electrolyte Level

1. Turn the key switch to the OFF position and remove the key. Place the Forward/Reverse handle in the NEUTRAL position. Chock the wheels.
2. Access the engine compartment. **See WARNING "For vehicles with cargo beds..." in General Warnings on page 12.**
   2.1. Remove the driver-side seat.
3. Disconnect battery and spark plug (Gas only) wires. **See Disconnecting the Battery – Gasoline/Diesel Vehicle on page 13**.
4. Use a flat-blade screwdriver, and carefully remove the battery cell caps from the battery. **See following WARNING.**

⚠ WARNING

- **Wear safety glasses or approved eye protection when servicing the vehicle. Wear a full face shield and rubber gloves when working on or near batteries.**

5. Carefully check the electrolyte level and add distilled water if necessary. Do not fill the battery cells above the designated fill line. Replace battery cell caps.
6. Clean both battery terminals with a solution of baking soda and water (1 cup (237 mL) baking soda per 1 gallon (3.8 L) of water). Rinse thoroughly. Do not allow this solution to enter the battery. Be sure terminals are tight. Let the terminals dry and then spray them with Battery Terminal Protector Spray (CC PN 1014305). **See Connecting the Battery – Gasoline/Diesel Vehicles on page 14. See following WARNING.**

⚠ WARNING

- **If battery wire terminals are damaged or corroded, replace or clean them as necessary. Failure to do so may cause them to overheat during operation and could result in a fire, property damage, or personal injury.**

Be sure the battery hold-down clamp is properly tightened. Tighten to 108 in·lb (12.2 N·m). A loose clamp may allow the battery to become damaged from vibration or jarring.

If battery appears weak, have it charged by a trained technician. The battery should never be left discharged any longer than absolutely necessary (do not leave discharged overnight).

USING A BOOSTER BATTERY (JUMP STARTING)

⚠ WARNING

- **Wear safety glasses or approved eye protection when servicing the vehicle. Wear a full face shield and rubber gloves when working on or near batteries.**
- **When jumping from a booster battery make final connection (negative) at engine frame.**
- **Do not jump start or charge a frozen or damaged battery. Unplug charger before connecting or disconnecting cables to the battery. Never lean over battery while boosting, testing, or charging.**

If it is necessary to use a booster battery to start the engine, BE CAREFUL!

1. Turn the key switch to the OFF position. Place the Forward/Reverse handle in the NEUTRAL position, engage the park brake, and chock the wheels.
2. Ensure the booster battery is 12-volt. **See following NOTE.**

NOTE: *A starting battery is recommended but a deep cycle battery can be used if necessary.*

3. Access the engine compartment by raising the cargo bed. **See WARNING "For vehicles with cargo beds..." in General Warnings on page 12.**
4. Locate the vehicle battery on the driver's side of the vehicle under the cargo bed **(Figure 46)**.

5. Connect the end of the first cable (1) to the positive (+) terminal of the booster battery. Connect the other end of the same cable (2) to the positive terminal of the vehicle battery. **See DANGER "Battery – Explosive gases!..." in General Warnings on page 12.**
6. Connect the end of the second cable (3) to the negative (–) terminal of the booster battery. Connect the other end of the same cable (4) to the battery frame ground.
7. Sit in the driver's seat and start the engine.
8. After the engine has started, remove the frame ground (–) cable (4) first. Remove the cable from the positive terminal (2). Then remove the cables from the booster battery. **See following CAUTION.**

CAUTION

- **The alternator can be damaged if the following actions occur:**
  - **Engine is operated with battery cables disconnected.**
  - **Booster cables are connected wrong.**

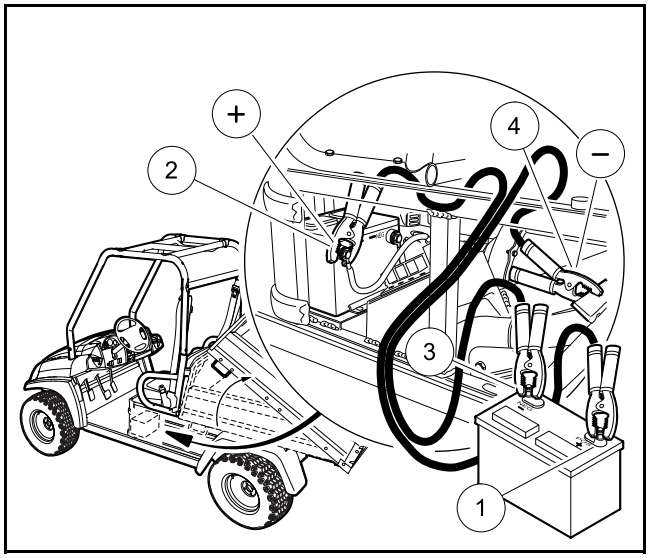

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Figure 46 Jump Starting

CLEANING THE VEHICLE

Each vehicle is equipped with hand-washable front and rear bodies. The vehicle has a powder-coated steel cargo bed (or optional aluminum flat bed). Use commercial automotive cleaning solutions with a sponge or soft cloth for normal cleaning. A garden hose at normal residential water pressure is adequate. To remove oxidation or discoloration from aluminum, use a commercially available aluminum cleaner paste and fine grade (No. 00) steel wool.

The manufacturer does not recommend any type of pressure washing or steam cleaning. Such a process will expose electrical components to moisture. Moisture entering electrical components can result in water damage and subsequent component failure.

Use non-abrasive wax products. Battery acid, fertilizers, tars, asphalt, creosote, paint, or chewing gum should be removed immediately to prevent possible stains.

The seats of the vehicle will last longer with proper cleaning. Use a solution of 10% liquid soap and warm water applied with a soft cloth. For imbedded dirt, a soft bristle brush may be used. For heavy soiling, difficult stains, or scratches, blemishes, or other body damage, see the appropriate maintenance and service manual. **See following NOTE.**

NOTE: *Dispose of waste water properly.*

ACCESSORIES

There is a complete line of accessory equipment available from Club Car and our dealers/distributors. You can obtain the name and phone number of your closest Club Car contact by visiting our web site at www.clubcar.com and clicking the "*Dealer Locator*" link.

Care should be taken that these accessories are properly installed by trained technicians and that they are used in the manner for which they were designed. **See following WARNING and CAUTION.**

⚠ WARNING

- **Custom cab assemblies, canopy tops, weatherproof enclosures, and windshields will not protect occupants from flying objects.**
- **If the vehicle is equipped with an electric-powered bed lift, remove the bed before servicing the bed lift system.**

CAUTION

- **Do not drill into the driver-side frame because it is part of the air intake system. Failure to heed this caution could damage the engine by allowing excessive contamination to enter the air intake system.**
- **Combined use of electric-powered accessories for an extended period of time could discharge the battery even with the engine running and an alternator installed. Be aware of charging system capacity rating and keep combined accessory use at or below that rating. See Vehicle Specifications on page 61. Failure to heed this caution could result in the vehicle shutting off, possibly leaving operator and passengers stranded.**

ELECTRIC WINCH ACCESSORY

If your vehicle is equipped with an electric winch, read and follow all manufacturer safety warnings and instructions in the winch operator manual, as well as the following WARNING and CAUTION statements. Make sure a winch warning decal is affixed to the vehicle on the seat support panel next to the receptacle for the remote operation switch.

The winch kit available includes a remote operation switch, which enables the operator to move away from the vehicle and cable. **See following WARNING and CAUTION.**

⚠ WARNING

- **Before beginning a winch operation:**
  - **Turn key switch to the OFF position, put Forward/Reverse handle in the NEUTRAL position, and engage the park brake.**
  - **Do not use winch while persons are seated on the vehicle.**
- **Stand to the side and away from the vehicle to operate winch.**

CAUTION

- **Use of the winch for an extended period of time could discharge the battery. Keep winch operations as short as possible, and drive the vehicle for several minutes after the winch operation to recharge the battery.**

MUD TIRE OPTION

All-wheel drive (AWD) vehicles equipped with optional mud tires are intended only for off-road operation; they are not designed for use on paved surfaces such as asphalt and concrete. Frequent driving on paved surfaces will significantly decrease the life of the mud tires. Vehicle performance will also be reduced when driving on paved surfaces. **See following WARNING and CAUTION.**

⚠ WARNING

- **To avoid the risk of rollover when operating a vehicle equipped with mud tires on a paved surface: reduce speed, use extreme caution, and drive slowly in turns.**
- **The diameter of all tires on the vehicle must be equal; otherwise the all-wheel drive system will not operate as intended and could result in severe personal injury or death. Never install tires of different diameters on the vehicle.**

CAUTION

- **Optional mud tires (off-road) are directional and must be installed according to the directional arrow mark (arrow indicates forward rotation of the tire) on the side-wall of each tire, or the tread performance will be severely compromised.**

The tires are made specifically for the AWD vehicle; therefore, Club Car recommends that only tires purchased from Club Car be used on your AWD vehicle.

SUBSEQUENT OWNER REGISTRATION

In the event a vehicle is bought as a used vehicle, we strongly urge the new owner to register the vehicle with Club Car. This will enable us to contact you if the need arises. Please send your name, address, and serial number of the vehicle to Club Car, LLC, P.O. Box 204658, Augusta, Georgia 30917-4658, Attention: Vehicle Registration.

VEHICLE SPECIFICATIONS

SPECIFICATIONS	CARRYALL 1500 & XRT 1550	CARRYALL 1500 & XRT 1550	CARRYALL 1700 & XRT 1550 SE	CARRYALL 1700 & XRT 1550 SE
POWER SOURCE	**GASOLINE**	**DIESEL**	**GASOLINE**	**DIESEL**
Engine: (Kawasaki) 4-cycle OHV, 675 cc, 20.1 Engine Horsepower (15.0 kW) rated @ 3400 RPM (per SAE J1349), twin-cylinder, air-cooled, with pressure lubrication system.	•		•	
Engine: 4-cycle OHV, 719 cc, 20.0 Engine Horsepower (15.0 kW) rated @ 3600 RPM (per SAE J1995), three-cylinder, water-cooled, with pressure lubrication system.		•		•
Fuel system: Side-draft carburetor with float bowl, fixed jets, fuel filters, and impulse fuel pump	•		•	
Fuel system: Mechanical injection, fuel water separator, fuel filters, and electric fuel pump		•		•
Governor (Kawasaki engine): internal to engine, centrifugal ball	•		•	
Governor: internal to engine, mechanical, centrifugal ball		•		•
Ignition: Transistorized magneto	•		•	
Ignition: Compression		•		•
Transmission: Forward and reverse with neutral (5.39:1 forward, 7.79:1 reverse)	•	•	•	•
Electrical system: 12 volt, 500 cca at 0 °F (-17.8 °C), 650 at 32 °F (0 °C). 105-minute reserve capacity.	•	•	•	•
Gasoline Vehicle Electrical Charging System: 2.8 amps at idle and 12.5 amps at maximum RPM	•		•	
Diesel Vehicle Electrical Charging System: 13 amps at idle and 38.8 amps at maximum RPM..		•		•
Torque converter: Automatic, variable-speed, dry type	•	•	•	•
STEERING/SUSPENSION/BRAKES				
Suspension: **Front:** Independent double A-arms with coil-over shock absorbers **Rear:** Semi-independent four-link suspension with coil-over shock absorbers	•	•	•	•
Steering: Self-adjusting rack and pinion, Ackerman	•	•	•	•
Brakes: Hydraulic brake system – brake pads and discs on each wheel with separate foot-operated park brake	•	•	•	•
BODY/CHASSIS				
Frame/Chassis: Box tube aluminum	•	•	•	•

SPECIFICATIONS	CARRYALL 1500 & XRT 1550	CARRYALL 1500 & XRT 1550	CARRYALL 1700 & XRT 1550 SE	CARRYALL 1700 & XRT 1550 SE
Side and rear body: Plastic	•	•	•	•
Cargo bed: Powder-coated steel or aluminum	•	•	•	•
Front body: Molded-in-color	•	•	•	•
Tires: All Terrain: 25 x 10.5 – 12 front and rear; tubeless, 4-ply rated load range **Mud:** 25 x 11 – 12 front and rear; tubeless, 4-ply rated load range	•	•	•	•
DIMENSIONS/WEIGHT				
NOTE: Items marked with an asterisk (*) indicate approximate values.				
***Overall length** (box bed configuration, without brush guard):	122 in (309.9 cm)		154 in (391.2 cm)	
Overall width: without mirror with mirror	58.5 in (148.5 cm) 63.6 in (161.5 cm)			
***Overall height** (with ROPS): with mud tires with all-terrain tires	82.3 in (209 cm)		80.3 in (203.8 cm)	
Wheelbase	81.5 in (207 cm)		114 in (289.5 cm)	
Ground clearance: under differential	8.2 in (20.8 cm)			
Front and rear wheel tread	48.8 in (124 cm)			
Forward speed	25 mph (40 km/h)			
Governed RPM	3825			
Turning Radius	138 in (350.5 cm)		204 in (518.2 cm)	
Load bed height	34 in (86.4 cm)			
Load bed size (box bed inside dimensions)	48.0 x 49.8 x 10.9 in. (122 x 127 x 28 cm) 15.3 cubic feet (240 cubic meters)			
Maximum payload capacity (level surface only)	800 lb (363 kg) High capacity option: 1050 lb (476 kg)		800 lb (363 kg)	
Vehicle rated capacity (payload, driver, and passenger; level surface only)	1200 lb (544 kg) High capacity option: 1450 lb (658 kg)		1600 lb (726 kg)	

SPECIFICATIONS	CARRYALL 1500 & XRT 1550	CARRYALL 1500 & XRT 1550	CARRYALL 1700 & XRT 1550 SE	CARRYALL 1700 & XRT 1550 SE
Maximum gross vehicle weight (fully loaded vehicle, including accessories)	Gas: 2630 lb (1193 kg) Diesel: 2750 lb (1247 kg) High capacity option: Gas: 2880 lb (1306 kg) Diesel: 3000 lb (1361 kg)		Gas: 3230 lb (1465 kg) Diesel: 3350 lb (1520 kg)	
Standard seating capacity	2		4	
LIQUID CAPACITIES				
Engine (Kawasaki) crankcase with filter: SAE 10W-30, API classification SJ	1 qt and 19 fl-oz (1.5 L)		1 qt and 19 fl-oz (1.5 L)	
Engine crankcase with filter: SAE 10W-30, API classification CF		3 qt (2.8 L)		3 qt (2.8 L)
Front differential: Mobil 424, Exxon Hydraul 560, or Esso Hydraul 56 lubricant (CC PN AM1216101)	5 fl-oz (150 mL)			
Rear differential: Mobil 424, Exxon Hydraul 560, or Esso Hydraul 56 lubricant (CC PN AM1216101)	20 fl-oz (600 mL)			
Transmission: Mobil 424, Exxon Hydraul 560, or Esso Hydraul 56 lubricant (CC PN AM1216101)	20 fl-oz (600 mL)			
Engine coolant: mixture of 55% propylene glycol and 45% water	N/A	2 gal (7.8 L)	N/A	2.25 gal (8.5 L)
Brake fluid: DOT 5 (silicone) brake fluid	8 fl-oz (240 mL)		17.9 fl-oz (530 mL)	
Fuel tank: unleaded gasoline	6.5 gal (24.6 L)		6.5 gal (24.6 L)	
Fuel tank: diesel grade no.2 with cetane rating of 45 or higher		6.5 gal (24.6 L)		6.5 gal (24.6 L)
TIRE PRESSURE				
All-terrain tread and mud tires	20 to 22 psig (138 to 152 kPa)			

WARRANTIES

CLUB CAR® LIMITED WARRANTY FOR ROUGH TERRAIN UTILITY VEHICLES

WARRANTY

CLUB CAR, LLC (“CLUB CAR”) hereby warrants to the Original Purchaser or Lessee, as those terms are defined herein, and subject to the provisions, limitations and exclusions in this limited warranty, that its new vehicle or new component purchased from CLUB CAR or an Authorized Dealer or Distributor shall be free from defects in material and workmanship under normal use and service for the periods stated below, subject to the provisions, limitations and exclusions in this limited warranty.

This limited warranty covers material, workmanship and repair labor cost as to those items specifically listed below for the periods specified. Such repair labor shall be performed only by CLUB CAR, its Authorized Dealers or Distributors, or a service agency approved by CLUB CAR. For repairs made by qualified technicians other than CLUB CAR’s factory technicians or an Authorized Dealer or Distributor, CLUB CAR will provide only the replacement parts or components.

IF THE WARRANTY REGISTRATION FORM IS NOT COMPLETED AND RETURNED TO CLUB CAR AT THE TIME OF THE ORIGINAL RETAIL SALE, PURCHASER MUST PROVIDE PROOF OF DATE OF PURCHASE WITH ANY WARRANTY CLAIM.

TO THE ORIGINAL OWNER ONLY (NON-TRANSFERABLE)	COMMERCIAL APPLICATION	PERSONAL APPLICATION
ENGINE AND POWERTRAIN: Engine assembly, transmission/transaxle assembly, front differential, rear differential, and main frame assembly.	1YEAR/ 1000 HOURS	2 YEARS/ 2000 HOURS
ALL REMAINING COMPONENTS: Limit switches, FNR lever, half shafts, prop shafts, axle shafts, brake components, wiring harness, electrical switches, seats, pedal group assembly, body, cab assembly and doors, canopy systems, and all original equipment options and accessories supplied by CLUB CAR, and all remaining components of the vehicle not specified otherwise.		1 YEAR/ 1000 HOURS

EXCLUSIONS

Excluded from any CLUB CAR warranty is damage to a vehicle or component resulting from a cause other than a defect including poor maintenance, neglect, abuse, accident and collision, maintenance adjustments, unreasonable or unintended strain or use, improper installation of accessories, installation of parts or accessories that are not original equipment including Club Car approved or non-approved GPS systems, non-approved alteration and acts of God. Also excluded from any CLUB CAR warranty are all fuses, filters, decals (except safety decals), lubricants, routine wear items such as engine mounts, bed floor lining, mats, pads, spark plugs, light bulbs, brake pads, belts, brushes, solenoid, bushings, drive buttons, cosmetic deterioration, and items that deteriorate, fade or fail due to exposure or ordinary wear and tear.

The provisions of this limited warranty shall not apply to failure due to the following conditions:

1. Abuse such as improper fluids, improper fluid levels, loose wiring and fasteners, or rusted or corroded hardware.
2. Lack of proper maintenance such as preventive maintenance checks, maintaining proper tire pressure and alignment and tightening loose wire connections as outlined in the owner’s manual.
3. Damages caused by improper installation of the component.
4. Failed semiconductor parts such diodes and fuses that are vulnerable to electrical overloads (including lightning) beyond the control of CLUB CAR.
5. Use of gasoline containing more than 10% ethanol (gasoline vehicles).
6. Use of diesel containing more than 5% biodiesel (diesel vehicles).

Transportation expenses for warranty services are also excluded from this warranty.

VOIDING OF WARRANTY

THIS AND ANY OTHER WARRANTY SHALL BE VOID IF THE VEHICLE OR COMPONENT IS ABUSED OR USED IN AN UNINTENDED MANNER OR SHOWS INDICATIONS THAT IT HAS BEEN ALTERED IN ANY WAY, INCLUDING, BUT NOT LIMITED TO, MODIFICATION OF THE SPEED GOVERNOR, BRAKING SYSTEM, STEERING, TRANSAXLE, OR OTHER OPERATING SYSTEMS OF THE CAR TO CAUSE IT TO PERFORM OUTSIDE CLUB CAR SPECIFICATIONS. THE WARRANTY IS LIKEWISE VOID IF THE VEHICLE SHOWS INDICATIONS THAT REASONABLE OR NECESSARY MAINTENANCE AS OUTLINED IN THE OWNER'S MANUAL AND MAINTENANCE AND SERVICE MANUAL WAS NOT PERFORMED AT THE TIME AND IN THE MANNER SPECIFIED IN SUCH MANUALS.

SOLE REMEDY

CLUB CAR's liability under this limited warranty or in any action whether based upon warranty, contract, negligence, strict product liability or otherwise, shall be the repair or replacement, at CLUB CAR's option, of the vehicle or component thereof that CLUB CAR deems to be defective. Replacement shall mean furnishing, during the applicable limited warranty period, a new vehicle or factory-reconditioned vehicle or component thereof that is identical or reasonably equivalent to the warranted product or component at no cost to the purchaser. Repair shall mean remedying a defect in the vehicle or component thereof at no cost to the purchaser during the applicable limited warranty period. CLUB CAR reserves the right to test and charge back any component returned for adjustment. If CLUB CAR elects to repair the vehicle or component, it may provide factory-reconditioned parts or components. All parts and components replaced under warranty shall become the property of CLUB CAR.

DISCLAIMER

THIS LIMITED WARRANTY IS EXCLUSIVE. CLUB CAR MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED BY CLUB CAR AND EXCLUDED FROM THIS WARRANTY. THE PURCHASER AND CLUB CAR EXPRESSLY AGREE THAT THE SOLE REMEDY OF THE REPLACEMENT OR REPAIR OF THE DEFECTIVE VEHICLE OR COMPONENT THEREOF IS THE SOLE REMEDY OF THE PURCHASER. CLUB CAR MAKES NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, AND NO REPRESENTATIVE, EMPLOYEE, DISTRIBUTOR OR DEALER OF CLUB CAR HAS THE AUTHORITY TO MAKE OR IMPLY ANY REPRESENTATION, PROMISE OR AGREEMENT, WHICH IN ANY WAY VARIES THE TERMS OF THIS WARRANTY.

In the event that another pre-printed warranty document, certificate or both offered by or through Club Car at the time of sale of this vehicle (each an "Additional Warranty Document") is deemed to conflict with the limitations or exclusions contained herein, the limitations and exclusions contained herein shall continue to apply to both this limited warranty statement and, to the maximum extent permitted by law, to each Additional Warranty Document.

NO CONSEQUENTIAL DAMAGES

IN NO EVENT SHALL CLUB CAR BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS RELATED TO PROPERTY OTHER THAN THE VEHICLE, LOSS OF USE, LOSS OF TIME, INCONVENIENCE, OR ANY OTHER ECONOMIC LOSS.

Some states allow neither limitation on the duration of an implied warranty nor exclusions or limitation of incidental or consequential damages. Therefore, the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

HOW TO MAKE A WARRANTY CLAIM

To make a warranty claim under this limited warranty, you must present the vehicle or defective component with evidence of proof of purchase date and number of hours to an authorized CLUB CAR dealer.

For warranty-related communication, contact Warranty Services, Club Car, 4125 Washington Rd., Evans, GA 30809, USA, 706.863.3000.

WARNING

Any modification or change to the vehicle that affects the electrical system, stability or handling of the vehicle, or increases maximum vehicle speed beyond factory specifications, can result in serious personal injury or death.

FEDERAL EMISSIONS COMPONENT DEFECT WARRANTY

EMISSIONS COMPONENT DEFECT WARRANTY COVERAGE - This emission warranty is applicable in all States, except the State of California.

Club Car, LLC (“CLUB CAR”) warrant(s) to the initial retail purchaser and each subsequent owner, that this Non-road engine (“engine”) has been designed, built, and equipped to conform at the time of initial sale to all applicable regulations of the U.S. Environmental Protection Agency (EPA), and that the engine is free of defects in materials and workmanship which would cause this engine to fail to conform with EPA regulations during its warranty period.

For the components listed under PARTS COVERED, the service dealer authorized by CLUB CAR will, at no cost to you, make the necessary diagnosis, repair, or replacement necessary to ensure that the engine complies with applicable U.S. EPA regulations.

EMISSION COMPONENT DEFECT WARRANTY PERIOD

The warranty period for this engine begins on the date of sale to the initial purchaser and continues for a period of three years.

PARTS COVERED

Listed below are the parts covered by the Emission Components Defect Warranty. Some of the parts listed below may require scheduled maintenance and are warranted up to the first scheduled replacement point for that part.

EXHAUST EMISSIONS

1. Fuel Metering System
    1.1. Carburetor and internal parts (and/or pressure regulator or fuel injection system)
    1.2. Air/fuel ratio feedback and control system, if applicable
    1.3. Cold start enrichment system, if applicable
2. Air Induction System
    2.1. Intake manifold, if applicable
    2.2. Air filter
3. Ignition System
    3.1. Spark plugs
    3.2. Magneto or electronic ignition system
    3.3. Spark advance/retard system, if applicable
4. Catalyst or Thermal Reactor System
    4.1. Exhaust Manifold, if applicable
5. Miscellaneous Items Used in Above Systems
    5.1. Electronic controls, if applicable
    5.2. Hoses, belts, connectors, and assemblies

EVAPORATIVE EMISSIONS

1. Fuel Line
2. Fuel Line Fittings
3. Clamps
4. Fuel Tank
5. Fuel Cap
6. Vapor Hoses

7. Carbon Canister
8. Carbon Canister Mounting Brackets
9. Air Cleaner Purge Port Connector

REPLACEMENT PARTS DISTRIBUTION CENTER

Replacement parts are provided to the market upon request by the customers. Replacement parts distribution center is located at the Service Parts Department, Club Car, 4125 Washington Road, Evans, Georgia 30809, U.S.A., 706-863-3000. If you have a question regarding your replacement part, you should contact CLUB CAR at 706-863-3000.

OBTAINING WARRANTY SERVICE

To obtain warranty service, take your engine to the nearest authorized CLUB CAR service dealer. Bring your sales receipts indicating date of purchase for this engine. The service dealer authorized by CLUB CAR will perform the necessary repairs or adjustments within a reasonable amount of time and furnish you with a copy of the repair order. All parts and accessories replaced under this warranty become the property of CLUB CAR.

For owners located more than 100 miles from an authorized service center, the following will be provided to those applicable owners (excluding the states with high-altitude areas).

- CLUB CAR will either pay for the shipping costs of replacement parts to and from an authorized service center.
- Or CLUB CAR will provide for a service technician to come to the owner to make the warranty repair.
- Or CLUB CAR will pay for the repair to be made at a local non-authorized service center.

WHAT IS NOT COVERED

- Conditions resulting from tampering, misuse, improper adjustment (unless they were made by the service dealer authorized by CLUB CAR during a warranty repair), alteration, accident, failure to use the recommended fuel and oil, or not performing required maintenance services.
- The replacement parts used for required maintenance services.
- Consequential damages such as loss of time, inconvenience, loss of use of the engine or equipment, etc.
- Diagnosis and inspection charges that do not result in warranty-eligible service being performed.
- Any non-authorized replacement part, or malfunction of authorized parts due to use of non-authorized parts.

OWNER'S WARRANTY RESPONSIBILITIES

As the engine owner, you are responsible for the performance of the required maintenance listed in your owner's manual. CLUB CAR recommends that you retain all receipts covering maintenance on your engine, but CLUB CAR cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the engine owner, you should however be aware that CLUB CAR may deny warranty coverage if your engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your engine to the nearest service dealer authorized by CLUB CAR when a problem exists.

If you have any questions regarding your warranty rights and responsibilities, you should contact the CLUB CAR customer service department at 706-863-3000 for the information.

THINGS YOU SHOULD KNOW ABOUT THE EMISSION CONTROL SYSTEM WARRANTY MAINTENANCE AND REPAIRS

You are responsible for the proper maintenance of the engine. You should keep all receipts and maintenance records covering the performance of regular maintenance in the event questions arise. These receipts and maintenance records should be transferred to each subsequent owner of the engine. CLUB CAR reserves the right to deny warranty coverage if the engine has not been properly maintained. Warranty claims will not be denied, however, solely because of the lack of required maintenance or failure to keep maintenance records.

MAINTENANCE, REPLACEMENT OR REPAIR OF EMISSION CONTROL DEVICES AND SYSTEMS MAY BE PERFORMED BY ANY REPAIR ESTABLISHMENT OR INDIVIDUAL; HOWEVER, WARRANTY REPAIRS MUST BE PERFORMED BY A SERVICE DEALER AUTHORIZED BY CLUB CAR. THE USE OF PARTS THAT ARE NOT EQUIVALENT IN PERFORMANCE AND DURABILITY TO AUTHORIZED PARTS MAY IMPAIR THE EFFECTIVENESS OF THE EMISSION CONTROL SYSTEM AND MAY HAVE A BEARING ON THE OUTCOME OF A WARRANTY CLAIM.

If other than the parts authorized by CLUB CAR are used for maintenance replacements or for the repair of components affecting emission control, you should assure yourself that such parts are warranted by their manufacturer to be equivalent to the parts authorized by CLUB CAR in their performance and durability.

HOW TO MAKE A CLAIM

All repairs qualifying under this limited warranty must be performed by a service dealer authorized by CLUB CAR. In the event that any emission-related part is found to be defective during the warranty period, you shall notify CLUB CAR customer service department at 706-863-3000 and you will be advised of the appropriate warranty service dealer or service providers where the warranty repair can be performed.

CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT

YOUR WARRANTY RIGHTS AND OBLIGATIONS:

The California Air Resources Board (“CARB”) and Club Car, LLC (“CLUB CAR”) are pleased to explain the emission control system warranty on your 2014 or newer vehicle engine (the “emission warranty”). In California, new small off-road engines (“SORE”) must be designed, built and equipped to meet the State’s stringent anti-smog standards. CLUB CAR shall warrant the emission control system on the vehicle engine for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your small off-road engine.

Your emission control system may include parts such as the carburetor or fuel-injection system, the ignition system, the catalytic converter and related hoses, belts, connectors and other emission assemblies or components.

Where a warrantable condition exists, as defined herein, CLUB CAR will repair your vehicle engine at no cost to you including diagnosis, parts and labor.

MANUFACTURER’S WARRANTY COVERAGE:

This emission control system is warranted for two years from the vehicles’ date of purchase. If any emission-related part on your CLUB CAR SORE is defective, the part will be repaired or replaced by CLUB CAR.

OWNER’S WARRANTY RESPONSIBILITIES:

- As the vehicle engine owner, you are responsible for the performance of the required maintenance listed in your owner’s manual. CLUB CAR recommends that you retain all receipts covering maintenance on your vehicle engine, but CLUB CAR cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

- As the vehicle engine owner, you should however be aware that CLUB CAR may deny you warranty coverage if vehicle engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

- You are responsible for presenting vehicle engine to a CLUB CAR distribution center as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have any questions regarding your warranty rights and responsibilities, you should contact WARRANTY SERVICES, CLUB CAR, LLC, P.O. Box 204658, Augusta, Georgia 30917-4658, U.S.A., 1-706-863-3000.

CLUB CAR EXPLANATION OF EMISSION CONTROL WARRANTY:

1. WARRANTY:

CLUB CAR warrants to the ultimate purchaser and each subsequent purchaser that the SORE and related emissions equipment is designed, built and equipped so as to conform with all applicable California environmental emission regulations; and free from defects in materials and workmanship that cause the failure of a warranted part to be identical in all material respects to that part as described in CLUB CAR's application for certification with CARB. The warranty period begins on the date the engine or equipment is delivered to an ultimate purchaser or first placed into service. The warranty period is two years from the date of purchase.

2. COVERAGE:

Subject to certain conditions and exclusions as stated below, the warranty on emission-related parts is as follows:

(1) Any warranted part that is not scheduled for replacement as required maintenance in the written instructions supplied, is warranted for the warranty period stated above. If the part fails during the period of warranty coverage, the part will be repaired or replaced by CLUB CAR according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the original warranty period.

(2) Any warranted part that is scheduled only for regular inspection in the written instructions supplied is warranted for the warranty period stated above. Any such part repaired or replaced under warranty will be warranted for the remaining original warranty period.

(3) Any warranted part that is scheduled for replacement as required maintenance in the written instructions supplied is warranted for the period of time before the first scheduled replacement date for that part. If the part fails before the first scheduled replacement, the part will be repaired or replaced by CLUB CAR according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period prior to the first scheduled replacement point for the part.

(4) Repair or replacement of any warranted part under the warranty provisions herein must be performed at a warranty station* at no charge to the owner.

(5) Notwithstanding the provisions herein, warranty services or repairs will be provided at all of our distribution centers that are franchised to service the subject engines or equipment.

(6) The engine or equipment owner will not be charged for diagnostic labor that is directly associated with diagnosis of a defective, emission-related warranted part, provided that such diagnostic work is performed at a warranty station*.

(7) CLUB CAR is liable for damages to other engine or equipment components proximately caused by a covered failure under warranty of any warranted part.

(8) Throughout the engine or equipment warranty period stated above, CLUB CAR will maintain a supply of warranted parts sufficient to meet the expected demand for such parts.

(9) Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of CLUB CAR.

(10) Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts by the ultimate purchaser will be grounds for disallowing a warranty claims. CLUB CAR will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.

*CLUB CAR, its authorized dealers, or a service agency approved by CLUB CAR.

ITEMS COVERED BY THIS WARRANTY:

The repair or replacement of any warranted part otherwise eligible for warranty coverage may be excluded from such warranty coverage if CLUB CAR demonstrates that the engine or equipment has been abused, neglected, or improperly maintained, and that such abuse, neglect, or improper maintenance was the direct cause of the need for repair or replacement of the part. That notwithstanding, any adjustment of a component that has a factory installed, and properly operating, adjustment limiting device is still eligible for warranty coverage. The following emission warranty parts list are covered:

SYSTEMS COVERED PARTS DESCRIPTION

Fuel Metering Carburetor assembly, fuel injection pump, fuel injection nozzle, fuel regulator Exhaust Catalytic Converter, Exhaust Manifold Air Induction Air filter housing, air filter*, crankcase breather tube Ignition Flywheel magneto, ignition pulse generator, ignition coil assembly, ignition control module, spark plug cap, spark plug* Positive Crankcase Ventilation (PCV) System PCV valve, oil filler cap Evaporative System Fuel Tank, Fuel Cap, Fuel Lines, Fuel Line Fittings, Clamps, Pressure Relief Valves, Purge Valves, Vapor Hoses, Carbon Canister, Canister Mounting Brackets, Carbon Canister Purge Port Connector Misc. Parts Belts, hosing, tubing, fittings, seals, gaskets, clamps, and switches associated with the above systems.

Emission-related parts will vary between vehicles; therefore, certain vehicles may not include all of the listed parts or may include equivalent parts.

3. VOIDING OF WARRANTY:

THIS AND ANY OTHER WARRANTY SHALL BE VOID IF THE VEHICLE IS ABUSED OR USED IN AN UNINTENDED MANNER OR SHOWS INDICATIONS THAT IT HAS BEEN ALTERED IN ANY WAY, INCLUDING, BUT NOT LIMITED TO, MODIFICATION OF THE SPEED GOVERNOR, BRAKING SYSTEM, STEERING, TRANSAXLE, OR OTHER OPERATING SYSTEMS OF THE VEHICLE TO CAUSE IT TO PERFORM OUTSIDE CLUB CAR SPECIFICATIONS.

4. HOW TO MAKE A WARRANTY CLAIM:

To make a warranty claim under this limited warranty, you must present the vehicle or defective component to an authorized CLUB CAR dealer.

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